

City of Tucson, Arizona

Summary of Cost of Service and Rate Recommendations Study



Final Report

April 2004

Submitted by:



R. W. Beck, Inc. 5806 Mesa Drive, Suite 310 Austin, Texas 78731 (512) 450-0991 April 30, 2004



Mr. Eliseo Garza, Jr.
Director, Environmental Services
City of Tucson
4004 South Park Avenue
Tucson, AZ 85714

Re: Summary of Cost of Service Analysis and Rate Recommendations for the City of Tucson's Environmental Services

Dear Mr. Garza:

R.W. Beck, Inc. was retained by the City of Tucson in February 2004 to update the FY 2003/2004 cost of service study prepared by our firm for the City's solid waste system. The primary purpose of the update is to develop a five-year cost of service based rate projection for FY 2004/2005 through FY 2008/2009.

The purpose of this memorandum is to describe the methodology implemented to conduct the requested analysis and present the results. This memorandum is divided into the following sections:

- A. Overview of Environmental Services Operations
- B. Description of Analysis Methodology
- C. Rates and Fees
- D. Impact of Future Debt
- E. Rate Design Issues
- F. Recommendations

#### Appendix A – Schedules

- 1. Five-Year Revenue Requirement
- Five-Year Revenue Requirement by Service Category
- 3. Residential Rates
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- Subsidies Paid by Residential Customers
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#### A. Overview of Environmental Services Operations

Environmental Services currently provides solid waste services to 141,571 residential accounts, 5,480 dumpsters (includes 468 recycling dumpsters and 384 currently non-

paying accounts), and 163 roll-off/compactor containers. Solid waste services provided by Environmental Services include the following:

Residential service is provided once per week to City of Tucson residents via automated side-loader trucks. Most customers have either 90-gallon rollout containers or 350-gallon stationary, shared containers. A few customers have 60-gallon and 30-gallon containers. All residential customers are also provided once per week recycling services and twice a year brush/bulky collection services. The City currently charges \$2 per month for the Clean Tucson program but does not charge a fee for other residential services.

<u>Commercial services</u> provided by the City include dumpster collection and disposal for one to eight cubic yard containers via front-loader collection vehicles. Additionally, the City provides collection and disposal of roll-off open top and compactor containers, ranging in size from 20 to 40 cubic yards. Commercial collections range in frequency from one to six times per week, depending on the customer's needs.

The Los Reales Landfill is owned and operated by the City of Tucson. This landfill receives approximately 556,500 tons of refuse each year. Approximately 330,000 tons of disposal at this site is from City provided collection services (residential and commercial customers). The remaining 227,000 tons is from private and self-haulers. Additionally, residents may drop-off household hazardous waste, metal appliances, scrap metal, computers, antifreeze, batteries, and old paint at the landfill for processing and/or recycling free of charge.

#### B. Description of Analysis Methodology

The cost analysis associated with this study required a systematic progression of steps. The ultimate goal of the cost analysis was to determine solid waste rates that accurately recover the costs of operating the City's Environmental Services. The first step involved the identification of the Environmental Services expenses itemized in the City's financial reports. Based on these expenses, R.W. Beck determined the annual amount of revenue that would be required to adequately fund all services provided by Environmental Services.

The second step entailed the assignment and allocation of costs to various service categories. R.W. Beck used the same 20 service categories developed for the 2003 study in the five-year update. The costs of operating the City's Environmental Services were then allocated to the appropriate cost categories. The final step required the identification of the billing units associated with each customer class, such as residential (including the Clean Tucson program) and commercial, resulting in cost of service based rates for the City's various customer classes.

#### 1. Five-Year (FY 2004/2005 - FY 2008/2009) Revenue Requirement

In developing the five-year revenue requirement for Environmental Services, R.W. Beck relied on five-year Environmental Services pro-forma budget data provided by City staff.

R.W. Beck made several adjustments to the adopted budget based on input from City staff. These adjustments, which were made to more accurately reflect the cost of providing services, are listed below:

- Adjusted the Administration budget to account for the following:
  - Decreased group insurance costs by \$5,215 in FY2004/2005 and by \$10,430 in FY 2005/2006 to reflect budget adjustments provided by City staff.
  - b. Increased the FY 2004/2005 budget by a total of \$185,560 to reflect budget adjustments provided by City staff. These costs were inflated at an annual rate of 3% for the remaining four years. \$100,000 of this increase was provided to help fund the "Low Income Program", and \$84,240 was provided to reflect higher insurance costs.
- Adjusted the Customer Support and Billing budget to account for the following:
  - Decreased group insurance costs by \$5,390 in FY 2004/2005 and by \$10,780 in FY 2005/2006 to reflect budget adjustments provided by City staff.
  - b. Increased annual residential billing costs by \$70,560 in FY 2004/2005 to account for additional costs that would be realized should the City implement user fees for residential customers. These costs were inflated at an annual rate of 7.5% for the remaining four years.
  - c. Increased the FY 2004/2005 budget by a total of \$36,934 to reflect budget adjustments provided by City staff. These costs were inflated at an annual rate of 3% for the remaining four years.
  - d. Increased the FY 2004/2005 budget by \$67,026 to account for a one-time purchase of books, computers and other equipment. \$50,000 of this increase is for phone system upgrades.
- Adjusted the Program Development and Planning budget to account for the following:
  - Reduced expenses for miscellaneous distributed labor to \$0 in all five years to eliminate the transfer of expenses between departments.<sup>1</sup>
  - Decreased group insurance costs by \$2,100 in FY 2004/2005 and by \$4,200 in FY 2005/2006 to reflect budget adjustments provided by City staff.
  - c. Increased the FY 2004/2005 budget by a total of \$82,020 to reflect budget adjustments provided by City staff. These costs were inflated at an annual rate of 3% for the remaining four years.

<sup>&</sup>lt;sup>1</sup> The cost-of-service based rates discussed in this memorandum are based on the allocation of expenses to the customer classes incurring the costs. Therefore, the inter-department transfer of expenses to more equitably distribute costs across programs is adjusted for through R.W. Beck's cost methodology.

- · Subtracted \$410,000 in all five years for the Recycling Grant.
- Adjusted the Code Enforcement budget to account for the following:
  - Decreased group insurance costs by \$4,531 in FY 2004/2005 and by \$9,062 in FY 2005/2006 to reflect budget adjustments provided by City staff.
  - b. Increased the FY 2004/2005 budget by a total of \$46,844 to reflect budget adjustments provided by City staff. \$43,890 of this increase reflects increased insurance costs. These costs were inflated at an annual rate of 3% for the remaining four years.
  - Increased the FY 2004/2005 budget by \$15,000 to account for a one-time purchase of books, computers and other equipment.
- Adjusted the Residential Collections budget to account for the following:
  - Reduced expenses for miscellaneous labor to \$0 in all five years to eliminate the transfer of expenses between departments.
  - Decreased group insurance costs by \$34,120 in FY 2004/2005 and by \$68,240 in FY 2005/2006 to reflect budget adjustments provided by City staff
  - c. Increased the FY 2004/2005 budget by a total of \$326,420 to reflect budget adjustments provided by City staff. \$277,620 of this increase reflects higher insurance costs. These costs were inflated at an annual rate of 3% for the remaining four years.
  - d. Increased salary expenses by \$89,447 in FY 2004/2005 to account for expected growth. These costs were inflated at an annual rate of 7.5% for the remaining four years. Salary expenses were simultaneously decreased by \$83,370 in FY 2004/2005 to account for the transfer of a superintendent's salary from residential to Clean Tucson (a corresponding increase was made to Clean Tucson).
- Adjusted the Clean Tucson budget to account for the following:
  - a. Increased salary expenses by \$89,447 in FY 2004/2005 to account for expected growth. These costs were inflated at an annual rate of 7.5% for the remaining four years. Salary expenses were simultaneously increased in all five years by \$83,730 to account for the transfer of a superintendent's salary from residential to Clean Tucson (a corresponding decrease was made to residential).
  - Decreased group insurance costs by \$7,726 in FY2004/2005 and by \$15,452 in FY 2005/2006 to reflect budget adjustments provided by City staff.
  - c. Increased the FY 2004/2005 budget by a total of \$83,380 to reflect budget adjustments provided by City staff. \$60,550 of this increase reflects higher insurance costs. These costs were inflated at an annual rate of 3% for the remaining four years.

- d. Reduced expenses for miscellaneous labor to \$0 for all five years to eliminate the transfer of expenses between departments.
- · Adjusted the Commercial Collections budget to account for the following:
  - a. Reduced expenses for interactivity credits to \$0 for all five years to eliminate the transfer of expenses between departments.
  - Reduced expenses for other services to \$0 for all five years to eliminate the transfer of expenses between departments.
  - c. Decreased group insurance costs by \$20,781 in FY 2004/2005 and by \$41,562 in FY 2005/2006 to reflect budget adjustments provided by City staff.
  - d. Increased the FY 2004/2005 budget by a total of \$178,370 to reflect budget adjustments provided by City staff. \$149,110 of this increase reflects higher insurance costs. These costs were inflated at an annual rate of 3% for the remaining four years.
- · Adjusted the Container Maintenance budget to account for the following:
  - Decreased group insurance costs by \$3,510 in FY 2004/2005 and by \$7,020 in FY 2005/2006 to reflect budget adjustments provided by City staff.
  - b. Increased the FY 2004/2005 budget by a total of \$72,060 to reflect budget adjustments provided by City staff. These costs were inflated at an annual rate of 3% for the remaining four years. \$52,200 of this increase reflects budget shortfalls for container parts.
- Adjusted the Engineering and Technical Support budget to account for the following:
  - Decreased group insurance costs by \$7,905 in FY 2004/2005 and by \$15,810 in FY 2005/2006 to reflect budget adjustments provided by City staff.
  - b. Increased the FY 2004/2005 budget by a total of \$366,700 to reflect budget adjustments provided by City staff. \$78,690 of this increase reflects higher insurance costs, \$122,000 is for closed landfill maintenance, and \$100,000 is for a Citywide Environmental Assessment program. These costs were inflated at an annual rate of 3% for the remaining four years.
- Adjusted the Landfill Operations budget to account for the following:
  - Decreased group insurance costs by \$11,954 in FY 2004/2005 and by \$23,908 in FY 2005/2006 to reflect budget adjustments provided by City staff.
  - Increased the FY 2004/2005 budget by a total of \$154,252 to reflect budget adjustments provided by City staff. \$124,960 of this increase

reflects higher insurance costs. These costs were inflated at an annual rate of 3% for the remaining four years.

- Eliminated all vehicle purchase expenses from all service categories for the fiveyear period to reflect the move away from cash financing towards the use of surrogate debt and a capital reserve fund for vehicle purchases.
- Increased uncollectible accounts expenses by a constant rate of 2% of departmental costs over five year period.
- Included \$500,000 in each fiscal year for capital fund transfers.
- Included \$1,000,000 in FY 2004/2005 for transfers to the general fund (for administrative support services) that may be required if Environmental Services becomes an Enterprise Fund. These costs were increased at a constant rate of \$500,000 per year through FY 2008/2009.

In addition to the adjustments noted above, costs that have not historically been included in the Environmental Services budget were added for the following items:

- Debt Service (funded with general obligations, etc.)
- Closure Costs
- Post-Closure Care Costs
- · Capital Reserve Fund for Vehicle Purchases

It is important that these costs be included in the development of all solid waste user fees, since these costs are associated with the operation of the City of Tucson's Environmental Services.

Using the five-year pro-forma budget and the adjustments listed above, the Environmental Services annual revenue requirement for FY 2004/2005 is expected to total \$36,887,027. Five-year revenue requirement figures are presented in Table 1. A detailed breakout of these costs through FY 2008/2009 is provided in Schedule 1.

Table 1 Environmental Services Five-Year Revenue Requirement

|             | FY 04/05      | FY 05/06      | FY 06/07      | FY 07/08 25   | FY 08/09      |
|-------------|---------------|---------------|---------------|---------------|---------------|
| Budgeted    | \$ 27,923,757 | \$ 29,587,295 | \$ 30,953,378 | \$ 32,357,017 | \$ 33,813,893 |
| Adjustments | \$ 8,963,270  | \$ 10,205,821 | \$ 14,995,070 | \$ 15,175,193 | \$ 17,036,824 |
| Total       | \$ 36,887,027 | \$ 39,793,116 | \$ 45,948,448 | \$ 47,532,210 | \$ 50,850,717 |

#### 2. Allocation to Service Categories

Environmental Services provides various services to the community. For the purpose of this study, the services were functionalized into 20 service categories. Identification of

the total cost associated with each service category was a critical step in determining an accurate rate that reflects the true cost of service. These costs were isolated by service category to ultimately recover the total revenue requirement by matching those customers that utilize the service with the actual costs associated with that service. The FY 2004/2005 cost for providing each service is presented in Table 2. Cost of service projections for the five-year period through FY 2008/2009 are provided in Schedule 2.

Table 2 FY 2004/2005 Revenue Requirement by Service Category

| Service Category          | Program Cost |
|---------------------------|--------------|
| Residential Collecti      | ons          |
| Administration            | \$1,583,953  |
| Collection                | \$14,131,308 |
| Disposal Operations       | \$2,799,505  |
| Disposal Remediation      | \$1,417,756  |
| Clean Tucson              |              |
| Administration            | \$59,463     |
| Collection                | \$2,428,676  |
| Disposal Operations       | \$234,152    |
| Disposal Remediation      | \$97,508     |
| Subtotal                  | \$22,752,321 |
| Commercial Collection - 1 | Dumpsters    |
| Administration            | \$131,298    |
| Collection                | \$3,558,430  |
| Disposal Operations       | \$1,206,062  |
| Disposal Remediation      | \$671,547    |
| Container Maintenance     | \$842,607    |
| Subtotal                  | \$6,409,944  |
| Commercial Collection -   | Roll-offs    |
| Administration            | \$3,629      |
| Collection                | \$962,178    |
| Disposal Operations       | \$372,241    |
| Disposal Remediation      | \$207,268    |
| Container Maintenance     | \$25,063     |
| Subtotal                  | \$1,570,378  |
| Privates/Self Haule       | ers          |
| Disposal Operations       | \$3,953,202  |
| Disposal Remediation      | \$2,201,182  |
| Subtotal                  | \$6,154,384  |
| Total                     | \$36,887,027 |

#### 3. Billing Units

In order to calculate the appropriate user fees, it was necessary to determine the proper number of annual billing units, which includes the number of customers for various service categories and tonnages. These numbers were then used to determine the cost of service based user fees by dividing the revenue requirement by the appropriate billing units. Customer account details for the five-year study are presented in Table 3.

- ✓ Residential Customers Residential billing units are the number of residential accounts. Per City staff, estimated accounts for FY 2004/2005 are 141,571. Residential customer growth was calculated at a constant rate of 2,400 new accounts per year per City staff, for an approximate annual growth rate of 2%. The number of residential customer accounts is used to determine rates for garbage collection and disposal, recycling collection, and services provided as part of the Clean Tucson program.
- ✓ Commercial Dumpster Customers Billing units for dumpster customers are based on the total number of containers (5,480 in FY 2004/2005, including recycling containers and currently non-paying accounts), container size (one to eight cubic yards) and collection frequency (one to six times per week). Commercial dumpster customer growth was calculated at a constant annual rate of 2% through FY 2008/2009 per City staff.
- ✓ Commercial Roll-off Customers Billing units for roll-off customers are based on the number of open top/compactor containers (163 in FY 2004/2005), and the number of "pulls" during a 12-month period (10,848 in FY 2004/2005).<sup>2</sup> Growth in commercial roll-off customers and annual pulls were both calculated at a constant annual rate of 2% per City staff.

Table 3
Five-Year Customer Growth Projections

| San Gallery Control | FY 04/05 | FY 05/06 | FY 06/07 | FY 07/08 | FY 08/09 |
|---------------------|----------|----------|----------|----------|----------|
| Residential         | 141,571  | 143,971  | 146,371  | 148,771  | 151,171  |
| Commercial          |          |          |          |          |          |
| Dumpsters           | 5,480    | 5,590    | 5,701    | 5,815    | 5,932    |
| Roll-offs           | 163      | 166      | 170      | 173      | 176      |

<sup>&</sup>lt;sup>2</sup> A "pull" is when a roll-off is picked up by a City truck and emptied at the City landfill.

#### C. Rates and Fees

R.W. Beck developed rates and fees for the various solid waste services provided by Environmental Services. R.W. Beck has provided rates for residential and commercial collection, including dumpsters, and commercial roll-offs.

#### 1. Residential Monthly Rate Per Household

Rates and fees associated with residential collection and disposal should be set at a level sufficient to recover the costs associated with providing all residential services. Residential monthly rates for FY 2004/2005 through FY 2008/2009 as calculated for the rate study are presented in Table 4. A detailed breakout of the residential rate is presented in Schedule 3.

Table 4
Five-Year Residential Rate Projections

| FY 04/05 | FY 05/06 | FY 06/07 | FY 07/08 | FY 08/09 |
|----------|----------|----------|----------|----------|
| \$14.08  | \$14.79  | \$16.55  | \$16.80  | \$17.60  |

#### 2. Monthly Rate Per Dumpster Account

The commercial dumpster rates are based on the extent to which customers use the various commercial dumpster services. This rate structure is based on the following five components of service:

- 1. Administration
- Collection
- 3. Disposal Operations
- 4. Disposal Remediation
- 5. Container Maintenance

The cost for the five components of dumpster services for FY 2004/2005 is presented below. Please see Schedule 4 for five-year cost of service projections.

Administration \$2.00 per container per month

2. Collections \$6.47 per pull

Disposal – Operations \$0.40 per cubic yard capacity

4. Disposal – Remediation \$0.22 per cubic yard capacity

Container Maintenance \$12.81 per container per month

The cost components are broken out so that customers pay only for the services from which they benefit. For instance, each of the 5,480 dumpsters shares equally in the

Administration Costs. Container Maintenance Costs are driven by the number of containers that each customer maintains. These costs reflect the repair costs incurred by the City to maintain the containers. Disposal Costs are driven by the amount of cubic yard capacity a customer has, <u>multiplied</u> by the frequency of times the container is picked up each month. Collection Costs are those costs identified with maintaining the City collection equipment and having crews available to collect the garbage in the dumpsters. This factor is driven by frequency of pick-ups, rather than the capacity of the containers. Proposed cost of service based commercial dumpster user fee rates for FY 2004/2005 are presented in Table 5. See Schedule 4 for dumpster user rate fees for the five-year period through FY 2008/2009.

Table 5 Dumpster Monthly Rates for FY 2004/2005

| Dumpster  |         |          | Collectio | ns Per Week |          | <b>基準機能</b> |
|-----------|---------|----------|-----------|-------------|----------|-------------|
| - Size    | 170     | 2        | 3         | 4           | 5.5      | 6           |
| 1         | \$45.55 | \$76.29  | \$107.03  | \$137.77    | \$168.51 | \$199.25    |
| 2         | \$48.24 | \$81.68  | \$115.11  | \$148.54    | \$181.98 | \$215.41    |
| 2.75      | \$50.26 | \$85.72  | \$121.17  | \$156.62    | \$192.08 | \$227.53    |
| 3         | \$50.94 | \$87.06  | \$123.19  | \$159.32    | \$195.44 | \$231.57    |
| 3.5       | \$52.28 | \$89,76  | \$127.23  | \$164.70    | \$202.18 | \$239.65    |
| 4         | \$53.63 | \$92.45  | \$131.27  | \$170.09    | \$208.91 | \$247.73    |
| 5         | \$56.32 | \$97.84  | \$139.35  | \$180.86    | \$222.38 | \$263.89    |
| 6         | \$59.02 | \$103.22 | \$147.43  | \$191.64    | \$235.84 | \$280.05    |
| 8         | \$64.40 | \$114.00 | \$163.59  | \$213.18    | \$262.78 | \$312.37    |
| Recycling | \$42.86 | \$70.90  | \$98.95   | \$127.00    | \$155.04 | \$183.09    |

#### 3. Monthly Rates for Roll-off Accounts

The construction of rates for roll-off accounts was undertaken in a manner similar to that used for dumpster accounts. Each cost component was determined based upon the following methodology. Five-year cost projections for the five-year period are shown in Table 6.

- Administration Costs Allocated on a per container basis.
- · Collection Costs Allocated on a per pull basis.
- Container Maintenance Allocated on a per container basis.

Table 6
Five-Year Roll-Off Rate Cost Projections

|                       | FY 04/05  | FY 05/06    | FY 06/07    | FY 07/08    | FY 08/09    |
|-----------------------|-----------|-------------|-------------|-------------|-------------|
| Administrative Costs  | \$3,629   | \$3,819     | \$4,172     | \$4,471     | \$4,795     |
| Collection Costs      | \$962,178 | \$1,054,432 | \$1,274,360 | \$1,322,843 | \$1,432,111 |
| Disposal Costs        | \$579,509 | \$628,123   | \$738,972   | \$752,009   | \$800,681   |
| Container Maintenance | \$25,063  | \$26,668    | \$29,471    | \$31,058    | \$33,077    |

The proposed rates for roll-off customers for FY 2004/2005 are listed in Table 7. Please see Schedule 5 for five-year projections for roll-off rates through FY 2008/2009.

Table 7 Roll-Off Monthly Rates for FY 2004/2005

| Roll-off |          |          | Collection | s Per Week | <b>基件体制度</b> 医 |            |
|----------|----------|----------|------------|------------|----------------|------------|
| Size     | 1        | 2        | 3          | 4          | 5              | 6          |
| 20       | \$399.02 | \$783.37 | \$1,167.72 | \$1,552.07 | \$1,936.42     | \$2,320.77 |
| 30       | \$399.02 | \$783.37 | \$1,167.72 | \$1,552.07 | \$1,936.42     | \$2,320.77 |
| 40       | \$399.02 | \$783.37 | \$1,167.72 | \$1,552.07 | \$1,936.42     | \$2,320.77 |

In addition to the collection charges identified in the table above for roll-offs, the City should charge a disposal fee based on the tonnage of waste collected by roll-off vehicles. The "cost of service" based tipping fee for FY 2004/2005 is \$23.18 per ton, as determined in the following section.

#### 4. Disposal Fee (for Roll-offs, Private Haulers, and Self Haulers)

The costs associated with refuse disposal were determined to be \$13,160,422 in FY 2004/2005. These costs were allocated to four customer classes based on the historical annual tonnage generated by each of these customer classes. In determining cost allocations through FY 2008/2009, tonnage was allocated to customer classes in the same ratios as in FY 2004/2005.

|                     | Annual Tonnage |
|---------------------|----------------|
| Residential         | 171,000        |
| Clean Tucson        | 14,000         |
| Commercial Dumpster | 81,000         |
| Roll-offs           | 25,000         |
| City Departments    | 38,500         |
| Self Haulers        | 57,000         |
| Private Haulers     | 170,000        |

The residential and dumpster accounts have their cost-based portion of the landfill disposal costs (operation and remediation) incorporated into their monthly bills. For roll-off customers, city departments (paying and non-paying), self haulers and private haulers, the tipping fee in FY 2004/2005 was determined to be \$23.18 per ton. Table 8 shows per ton tipping fees through FY 2008/2009.

556,500

Table 8 5-Year Per Ton Tipping Fee Projections

| FY 04/05 | FY 05/06 | FY 06/07 | FY 07/08 | FY 08/09 |
|----------|----------|----------|----------|----------|
| \$23.18  | \$25.12  | \$29.56  | \$30.08  | \$32.03  |

#### D. Impact of Future Debt

**Total Annual Tonnage** 

The purpose of this rate study was to determine the cost of service rates for FY 2004/2005 through FY 2008/2009 based on the organizational and operational changes implemented since the previous rate study was conducted. Over the next several years, the City expects to incur additional debt to finance the purchase of replacement vehicles and fund several ongoing landfill-related projects that are currently unfunded. Using unfunded project information provided by the City, R.W. Beck calculated annual debt service for the five year period through FY 2008/2009. Schedule 7 provides a summary of annual debt expenses for FY 2004/2005 through FY 2008/2009. Schedule 8 presents the breakout of debt service costs by service category. In summary, annual debt service is expected to increase from \$3,997,217 in FY 2004/2005 to \$7,383,070 by FY 2008/2009.

As a result of the increase in annual debt service, the City will need to adjust the following rates:

- · Monthly residential rate
- Per ton disposal fee
- Dumpster rates

#### E. Rate Design Issues

As mentioned in the previous section, the City is going to have to consider future rate increases in commercial dumpster and roll-off rates, per ton disposal fees, and residential fees (if residential fees are implemented, above and beyond the \$2 monthly service fee for biannual brush/bulky collection and the Clean Tucson program). The purpose of this section is to address four rate design issues:

- 1. Methods for implementing rate increases
- 2. Impact rate increases will have on cost recovery
- 3. Importance of implementing rate increases in a timely manner
- 4. Variable pricing or "pay as you throw"

#### 1. Methods for Implementing Rate Increases

R.W. Beck has worked with countless cities in the design of rate increases that were to be implemented over a five- to ten-year period. There are three basic ways in which rate increases can be implemented:

- A. Set amount every year
- B. Every two or three years
- C. All at once

#### A. Set Amount Every Year

Some cities will conduct a five-year forecast and determine that if the total revenue requirement is going to increase 30% over a five-year period, to implement a 6% annual increase, regardless of whether or not costs increase every year by that amount. Under this scenario, revenue recovery during a particular year may differ significantly from the annual revenue requirement in that same year. However, by the end of the five-year period; the rates implemented in Year Five should be generating revenue that is fairly close to the projected revenue requirement in Year Five.

This type of rate increase is very easy for citizens to understand and can be an effective rate option if the annual rate increases are relatively small (i.e. less than 4% to 6% per year).

#### B. Every Two or Three Years

Some cities that are facing a 30% increase over a five-year period will elect to phase the rate increase in over the five-year period with rate increases in only two of the five years. The size of the increase in the annual revenue requirement during the five-year forecast will oftentimes dictate the years in which the rate increases will be implemented. For instance, in reviewing Schedule 7 of the report it can be noted that there will be significant increases in the City's debt service for three consecutive fiscal years, beginning with FY 2005/2006. Therefore, the City may elect to increase rates in FY 2005/2006 and FY 2007/2008.

#### C. All at Once

Some cities decide to increase the rates with just one rate increase during the five-year period. This decision ultimately is driven by the size of the rate increase and how the city's revenue requirement is increasing during each year of the rate forecast. For instance if there is only one year when the revenue requirement increases substantially, then this rate design approach may prove feasible. However, depending on the size of the rate increase, the city may prove more effective in being allowed by its elected officials to increase its rates, if they are implemented in smaller incremental rate increases versus one significant rate increase.

R.W. Beck's experience has been that cities typically implement a rate increase every two to three years, and try to avoid raising rates every year. However, every city's situation needs to be evaluated on its own unique characteristics. It is important for the City of Tucson to realize that there are no "hard and fast" rules with regard to rate design and it becomes more of a policy decision as to what the elected officials and citizens will perceive as being the most equitable.

#### 2. Impact Rate Increases will have on Cost Recovery

R.W. Beck typically recommends that cities keep a "rough rule of thumb" that lets them know how much a rate increase will generate. For instance, with the City of Tucson, every \$.25 increase in the residential rate would generate approximately \$411,000 per year.<sup>3</sup> Another way to look at potential rate increases is to say, for every \$1.00 per ton increase in the tipping fee, the revenues generated will increase by approximately \$500,000, assuming all tonnage is assessed a tipping fee. By having a rough approximation as to the amount of money generated by future rate increases, when the City is faced with a \$1 million increase in the annual revenue requirement from one fiscal year to the next, the City can easily determine how much rates will need to increase to recover the cost.<sup>4</sup>

<sup>&</sup>lt;sup>3</sup> Approximately 140,000 residential accounts x \$.25 x 12 months = \$420,000, less 2% for non-collectible accounts.

<sup>4</sup> It is important that only those customers that are causing the increase in costs have their rates increased. For instance, if the residential recycling collection program costs increase by \$250,000 in a year, only residential customers should pay for this increase, not the commercial or private self-haulers.

#### 3. Importance of Implementing Rate Increases in a Timely Manner

It is essential that the City of Tucson implement future rate increases as needed. For instance, if the City is to consider the movement toward an enterprise fund (See Section F. Recommendation) it is important that the ultimate rate be "cost of service" based, or as close as is politically acceptable. In addition, it is important that future rate increases (residential, commercial, tipping fee) be implemented as soon as they become necessary. If a city continues to under-recover its cost of providing service, the solid waste utility will need to be subsidized by the general fund, or face a reduction in the level of services offered. By maintaining rates that recover the cost of providing service, the residential and commercial customers will better understand and appreciate the direct relationship between the size of their monthly garbage bill and the amount of waste they generate. This will result in a customer that is motivated to recycle and use the City's other solid waste services that encourage diversion of materials from the landfill. <sup>5</sup>

#### 4. Variable Pricing ("Pay As You Throw")

For residential users, the City may wish to pursue variable pricing ("pay as you throw" or PAYT) as an alternative approach to user fees. Rather than charge customers a constant rate for their waste production, variable pricing allows for a tiered pricing strategy based on actual waste produced. In a typical variable pricing program, customers are allowed to choose from multiple container sizes (typically broken down into 30-, 60-, and 90-gallon sizes). All customers are charged the same base rate for fixed costs such as salaries, collections and administrative costs, while an additional variable cost is assessed on the basis of actual waste produced. Properly implemented, this price differential between small and large container sizes can provide customers with an economic incentive to reduce their waste consumption through recycling or other means.

At the request of City staff, R.W. Beck performed a sensitivity analysis of the potential impact of variable pricing on the City's residential rates. Because customer migration from 90-gallon containers to smaller receptacles is highly dependent on economic incentives (i.e. the rate differential between small and large containers), the sensitivity analysis looked at the impact on rates of several different adoption levels for smaller container sizes.

Variable pricing has several benefits relevant to the specific issues facing Environmental Services. Because variable pricing provides an economic incentive for waste reduction and increased recycling, it often decreases the amount of waste that is ultimately landfilled. While individual outcomes vary widely, studies indicate that variable pricing can lead to a 16% average reduction in landfilled waste. Given the high future landfill-

<sup>&</sup>lt;sup>5</sup> For residential customers a formal "pay-as-you-throw" rate structure will encourage recycling; however, even a flat fee, with the City's current surcharge for a second container will encourage recycling, albeit at possibly a lower diversion rate. For commercial customers there is a stronger incentive to recycle since they pay based on the size of container and frequency of pick-up.

related costs faced by the City, the extension of useful landfill life provides a strong financial incentive to implement a variable pricing program.

Variable pricing may provide a political benefit as well, by providing customers with a lower-cost option to expected future residential rate increases. It may be easier to achieve political backing for residential rate increases if customers are allowed to voluntarily minimize their individual fee increases through adoption of smaller container sizes.

Finally, variable pricing programs can lead to reductions in overall department expenses. While variable pricing typically has little impact on fixed costs such as administration and collections, the reduction in waste produced can positively impact other cost centers, such as disposal. However, these reductions in departmental costs may be offset by increased costs in areas such as recycling. The literature on this point is inconsistent, and therefore a conservative approach was taken for this analysis and no reductions in operating costs were assumed. Table 9 provides rate details at different adoption levels for each container size. Because City staff indicated that any potential variable pricing program would not be implemented until FY 2007/2008, this analysis only covers the last two years of the five year study.

Table 9
Pay As You Throw Sensitivity Analysis

| 30/60/90 Gallon | F       | Y 2007/200 | 08      | F       | FY 2008/2009 |         |  |  |  |
|-----------------|---------|------------|---------|---------|--------------|---------|--|--|--|
| Adoption Rate   | 30 gal  | 60 gal     | 90 gal  | 30 gal  | 60 gal       | 90 gal  |  |  |  |
| 30% / 60% / 10% | \$15.89 | \$17.58    | \$19.27 | \$16.18 | \$17.95      | \$19.72 |  |  |  |
| 20% / 50% / 30% | \$15.55 | \$17.00    | \$18.45 | \$15.93 | \$17.45      | \$18.96 |  |  |  |
| 10% / 45% / 45% | \$15.33 | \$16.62    | \$17.92 | \$15.77 | \$17.12      | \$18.48 |  |  |  |

Further study should be taken to determine the actual cost reduction (if any) that would result from each of these adoption rates, as this will heavily influence cost of service calculations. Collection costs will be largely unaffected by the percentage of customers choosing smaller container sizes, but a very high 30 gallon adoption rate could lead to substantial reduction in landfill expenditures. This would allow the City to further reduce rates for those customers choosing smaller container sizes. The above analysis should be taken as a rough guide to the relative impact on different customer categories of the introduction of variable pricing.

#### F. Recommendations

To ensure the financial integrity of Environmental Services and minimize the impact of fluctuations in the economy on the City's ability to provide solid waste services, clean neighborhoods, and environmental programs, the City should strongly consider establishing Environmental Services as an enterprise fund. By operating as an enterprise fund that is financed through user fees, the City will decrease its dependence on City taxes to fund operations. In addition, the City, by implementing a residential user fee,

will increase the incentive for City residents to minimize the amount of waste they generate because residents will become more aware of the costs to manage their waste.

In addition to moving towards an enterprise fund structure, the City needs to address the issue of other municipal departments, as well as mobile home and town home customers, who currently utilize Environmental Services resources on a cost-free basis. Cost of service figures are currently calculated on the assumption that all 38,500 tons of waste produced by city departments, and all 384 non-paying commercial dumpster accounts, will be reimbursed to Environmental Services. If this additional revenue is not realized, this may lead to inadequate cost recovery or subsidization of non-paying city departments through higher fees from other users. The City has indicated that it plans to require all city departments, mobile home and town home facilities to reimburse Environmental Services for services provided, a policy change that the authors of this study strongly support.

R.W. Beck appreciates the opportunity to provide services to the City of Tucson concerning this analysis. If there are any questions concerning this memorandum, or our analysis, please feel free to contact Mr. Dave Yanke at (512) 450-0991.

Sincerely,

R. W. Beck, Inc. David S. Yanke

Principal

City of Tucson
Environmental Services
Five Year Revenue Requirement (FY 2004/05 - 2008/09)

| SMOONS W   |      | FY 2004/05         |   | FY 2005/06   |    | FY 2006/07       |     | FY 2007/08       |    | FY 2008/09    |
|--|------|--------------------|---|--|----|------------------|-----|------------------|----|---------------|
| Administration   |      |                    |   |  |    |                  |     |                  |    |               |
| Administration   | 5    | ****               |   |  | 9  |                  | 11  | 10279301         | 38 | 15000000      |
| Salaries Pension/FICA/Worker's Comp.                       |      | 834,560<br>181,740 | , | 876,700  | 3  | 930,855          | 2   | 985,585          | 2  | 1,041,57      |
| Group Insurance  |      | 91,355             |   | 204,820  |    | 217,497          |     | 230,309          |    | 243,41        |
| State Unemployment   |      | 350                |   | 104,550<br>350   |    | 126,478          |     | 139,126          |    | 153,03        |
| Travel/Training  |      | 11,250             |   | 11,250   |    | 11,250           |     | 11,250           |    | 41            |
| Professional Services                                      |      | 2,000              |   | 2,002  |    | 2,065            |     | 2,131            |    | 11,25         |
| Insurance  |      | 107,000            |   | 112,230  |    | 112,230          |     | 112,230          |    | 112,23        |
| Maintenance - Office                                       |      | 824                |   | 849  |    | B74              |     | 900              |    | 92            |
| Telephone  |      | 29,314             |   | 30,193   |    | 31,099           |     | 32,032           |    | 32,99         |
| Advertising/PR   |      | 118,283            |   | 118,277  |    | 118,620          |     | 118,973          |    | 119,33        |
| Memberships/Subscriptions                                  |      | 1,103              |   | 1,097  |    | 1,132            |     | 1,168            |    | 1,20          |
| Vehicle Related  |      | 6,391              |   | 6,389  |    | 6,593            |     | 6,802            |    | 7,0           |
| Supplies/Materials   |      | 28,902             |   | 29,088   |    | 31,178           |     | 31,374           |    | 33,6          |
| Clothing/Uniforms  |      | 304                |   | 278  |    | 282              |     | 286              |    | 25            |
| Books/Computer Equipment/Other Equipment                   |      | 4,940              |   | 4,882  |    | 4,947            |     | 5,015            |    | 5,00          |
| Other Supplies   |      | 716                |   | 533  |    | 572              |     | 613              |    | 6.            |
| Inter-Activity Natural Gas Fuel                            |      | 210                |   | 218  |    | 225              |     | 232              |    | 2             |
| Inter-Activity Gas   |      | 364                |   | 364  |    | 364              |     | 364              |    | 30            |
| Subtotal   | 5    | 1,419,606          | 2 | 1,504,070  | 5  | 1,596,633        | 5   | 1,678,784        | 2  | 1,765,9       |
| Tucson Clean & Beautiful                                   |      |                    |   |  |    |                  |     |                  |    |               |
| Telephone  | 5    | 2,600              | 5 | 2,600  | 5  | 2.600            |     | 7.000            | 23 | 2.0           |
| Contribution to Organizations                              | ೆ    | 44,000             | 3 | 44,000   | 3  | 2,600<br>44,000  | 3   | 2,600            | \$ | 2,6           |
| Office Supplies  |      | 2,910              |   | 2,890  |    | 3,090            |     | 44,000<br>3,090  |    | 44,00         |
| Subtotal   | S    | 49,510             | 5 | 49,490   | 5  | 49,690           | 5   |                  | 5  | 3,3<br>49,9   |
|  |      | 121775-2507        |   | 000000000  | 10 | 45,020           |     | 45,450           | -  | 40,0          |
| Division Total   | 2    | 1,469,116          | 1 | 1,553,560  | \$ | 1,646,323        | 3   | 1,728,474        | \$ | 1,815,8       |
| ustomer Service and Environmental Planning                 |      |                    |   |  |    |                  |     |                  |    |               |
| Customer Support and Billing                               |      |                    |   |  |    |                  |     |                  |    |               |
| Residential Billing  | 5    | 70,560             | 5 | 75,852   | 5  | 81,541           | 5   | 87,656           | \$ | 94,2          |
| Salaries   |      | 377,690            |   | 395,050  |    | 419,286          |     | 443,780          |    | 468,84        |
| Pension/FICA/Worker's Comp.                                |      | 86,800             |   | 97,520   |    | 103,520          |     | 109,583          |    | 115,7         |
| Group Insurance  |      | 87,630             |   | 95,820   |    | 117,260          |     | 128,986          |    | 141,8         |
| State Unemployment   |      | 330                |   | 330  |    | 350              |     | 371              |    | 3             |
| Travel/Training  |      | 2,000              |   | 2,000  |    | 2,000            |     | 2,000            |    | 2,00          |
| Professional Services                                      |      | 19,000             |   | 18,997   |    | 19,602           |     | 20,225           |    | 20,8          |
| Insurance  |      | 48,164             |   | 53,223   |    | 53,263           |     | 53,305           |    | 53,3          |
| Maintenance - Office Equipment                             |      | 309                |   | 318  |    | 328              |     | 338              |    | 3/            |
| Telephone  |      | 11,277             |   | 11,615   |    | 11,964           |     | 12,323           |    | 12,6          |
| Vehicle Related  |      | 85,794             |   | 85,795   |    | 88,526           |     | 91,339           |    | 94,2          |
| Supplies/Materials   |      | 10,594             |   | 10,897   |    | 11,208           |     | 11,528           |    | 11,8          |
| Books/Computer Equipment/Other Equipment<br>Other Supplies |      | 69,822<br>44       |   | 2,803  |    | 2,820            |     | 2,838            |    | 2,8           |
| Subtotal   | 5    | 870,014            | 5 | (282)<br>849,939   |    | (268)<br>911,400 | _   | (252)<br>964,021 | -  | 1,019,1       |
|  | - 63 | 501556W            |   | 200000   | 2  |                  | 13  | 204,021          | 8  | 1,0.1-71      |
| Program Development and Planning<br>Salaries               | 5    | 282,110            |   | 301,124  |    | 320,393          |     | 340,106          |    | 240.4         |
| Pension/FICA/Worker's Comp.                                |      | 53,790             | * | 61,590   |    | 65,409           | 3   | 69,267           | *  | 360,4<br>73,2 |
| Group Insurance  |      | 26,240             |   | 28,250   |    | 35,695           |     | 39,265           |    | 43,1          |
| State Unemployment   |      | 100                |   | 100  |    | 106              |     | 112              |    | 1             |
| Misc. Distributed Labor                                    |      | 100                |   | 500  |    |                  |     |                  |    | 1             |
| Travel/Training  |      | 11,700             |   | 11,700   |    | 11,700           |     | 11,700           |    | 11.7          |
| Professional Services                                      |      | 13,000             |   | 13,002   |    | 13,415           |     | 13,842           |    | 14,2          |
| Insurance  |      | 35,620             |   | 38,870   |    | 38,870           |     | 38,870           |    | 38,8          |
| Maintenance - Equipment                                    |      | 11,330             |   | 11,670   |    | 12,020           |     | 12,381           |    | 12,7          |
| Telephone  |      | 2,955              |   | 2,652  |    | 2,732            |     | 2,814            |    | 2,8           |
| Advertising/PR   |      | 344,900            |   | 344,896  |    | 345,119          |     | 345,349          |    | 345,5         |
| Memberships/Subscriptions                                  |      | 1,495              |   | 1,501  |    | 1,549            |     | 1,598            |    | 1,6           |
| Vehicle Related  |      | 3,258              |   | 3,259  |    | 3,362            |     | 3,469            |    | 3,5           |
| Supplies/Materials   |      | 5,508              |   | 5,617  |    | 5,744            |     | 5,859            |    | 5,9           |
| Clothing/Uniforms  |      | 165                |   | (170)  |    | (154)            |     | (137)            |    | (1            |
| Books/Computer Equipment/Other Equipment                   |      | 8,400              |   | 2,402  |    | 2,445            |     | 2,490            |    | 2,5           |
| Other Supplies   |      | 140                |   | 30   |    | 41               |     | 52               |    | 59080         |
| Inter-Activity Natural Gas Fuel<br>Inter-Activity Gas      |      | 1,495              |   | 1,495  |    | 1,495            |     | 1,495            |    | 1.4           |
| Subtotal   | 5    | 802,206            | 5 | FREE TO THE PERSON NAME OF THE P | 5  | 859,941          | 5   | 888,532          | 2  | 918,2         |
| Paragraphic Const  |      | MASS OF            |   | 100000   | Æ  | 250000           | 50% |                  | 30 |               |
| Recycling Grant<br>Budget Offset                           |      |                    |   |  |    |                  |     |                  |    |               |
|  |      |                    | _ |  | -  |                  |     |                  | _  |               |

| Code Enforcement<br>Salaries                          |      | 513,581              |      | 537,377              |             | 570,879              |    | 604,921    |        | 639,910        |
|---|------|----------------------|------|----------------------|-------------|----------------------|----|------------|--------|----------------|
| Pension/FICA/Worker's Comp.                           |      | 106,900              |      | 119,910              |             | 127,275              |    | 134,717    |        | 142,333        |
| Group Insurance                                       |      | 77,589               |      | 84,898               |             | 103,356              |    | 113,692    |        | 125,061        |
| State Unemployment                                    |      | 280                  |      | 280                  |             | 297                  |    | 315        |        | 333            |
| Travel/Training Professional Services                 |      | 4,550                |      | 4,550                |             | 4,550                |    | 4,550      |        | 4,550          |
| Insurance   |      | 59,903               |      | 63,389               |             | 63,438               |    | 63,487     |        | 63,538         |
| Maintenance   |      | 14,935               |      | 15,383               |             | 15,845               |    | 16,320     |        | 16,809         |
| Telephone   |      | 2,257                |      | 1,932                |             | 1,991                |    | 2,051      |        | 2,112          |
| Miscellaneous   |      | 1,215                |      | 1,252                |             | 1,289                |    | 1,328      |        | 1,368          |
| Vehicle Related                                       |      | 25,111               |      | 24,826               |             | 25,635               |    | 26,467     |        | 27,324         |
| Supplies/Materials                                    |      | 8,143                |      | 8,309                |             | 8,479                |    | 8,654      |        | 8,832          |
| Clothing/Uniforms                                     |      | 3,035                |      | 2,601                |             | 2,638                |    | 2,677      |        | 2,716          |
| Books/Computer Equipment/Other Equipment              |      | 18,200               |      | 3,200                |             | 2,000                |    | 2,000      |        | 2,000          |
| Other Supplies  |      | (96)                 |      | (302)                |             | (298)                |    | (293)      |        | (288)          |
| Inter-Activity Natural Gas Fuel<br>Inter-Activity Gas |      | 5,775<br>6,539       |      | 6,006                |             | 6,186<br>6,539       |    | 6,372      |        | 6,563<br>6,539 |
| Vehicles  |      |                      | _    |                      | <del></del> |                      | -  | -          | -      |                |
| Subtotal  | S    | 847,917              | 2    | 880,150              | 2           | 940,099              | 2  | 993,798    | 2      | 1,049,700      |
| Division Total  | 3    | 2,520,137            | 2    | 2,558,077            | 3           | 2,711,440            | 5  | 2,846,351  | 5      | 2,987,096      |
| Collections Residential Collections                   |      |                      |      |                      |             |                      |    |            |        |                |
| Residential Collections Salaries                      | 2    | 3,179,357            | 2    | 3,367,937            | 2           | 3,565,488            | 2  | 3,765,163  | 2      | 3,969,475      |
| Pension/FICA/Worker's Comp.                           |      | 751,290              | er.  | 853,940              | 100         | 904,370              | *  | 955,337    | off () | 1,007,480      |
| Group Insurance                                       |      | 608,900              |      | 673,610              |             | 816,035              |    | 897,639    |        | 987,402        |
| State Unemployment                                    |      | 2,150                |      | 2,150                |             | 2,283                |    | 2,418      |        | 2,556          |
| Meal Allowances/Sick Leave                            |      | 500                  |      | 500                  |             | 500                  |    | 500        |        | 500            |
| Misc. Labor   |      | 8,080                |      | 8,080                |             | 8,080                |    | 8,080      |        | 8,080          |
| Travel/Training                                       |      | 7,100                |      | 7,100                |             | 7,100                |    | 7,100      |        | 7,100          |
| Professional Services<br>Insurance                    |      | 377,240              |      | 394,010              |             | 394,010              |    | 394,010    |        | 394,010        |
| Maintenance   |      | 4                    |      | 11.                  |             |                      |    |            |        |                |
| Telephone<br>Direct Charges                           |      | 17,176               |      | 17,357               |             | 17,543               |    | 17,735     |        | 17,933         |
| Memberships/Subscriptions                             |      | 783                  |      | 778                  |             | 802                  |    | 828        |        | 854            |
| Vehicle Related                                       |      | 3,056,353            |      | 3,139,947            |             | 3,238,090            |    | 3,339,176  |        | 3,443,296      |
| Supplies/Materials                                    |      | 8,946                |      | 9,199                |             | 9,459                |    | 9,727      |        | 10,003         |
| Food/Chemicals  |      | 7,500                |      | 7,503                |             | 7,659                |    | 7,818      |        | 7,981          |
| Clothing/Uniforms                                     |      | 31,600               |      | 31,601               |             | 31,983               |    | 32,376     |        | 32,781         |
| Books/Computer Equipment/Other Equipment              |      | 503,290              |      | 503,290              |             | 503,290              |    | 503,290    |        | 503,290        |
| Other Supplies  |      | 56,146               |      | 55,902               |             | 58,342               |    | 60,880     |        | 63,519         |
| Inter-Activity Natural Gas Fuel                       |      | 4,095                |      | 4,259                |             | 4,387                |    | 4,518      |        | 4,654          |
| Inter-Activity Gas                                    | -    | 534,176              | _    | 541,916              | -           | 547,183              |    | 552,607    | _      | 558,194        |
| Subtotal  | 2    | 9,154,682            | 2    | 9,619,079            | 5           | 10,116,603           | s  | 10,559,202 | 2      | 11,019,108     |
| Clean Tucson<br>Salaries                              | 5    | 774,177              |      | 808,827              | 5           | 857,971              | •  | 908,474    |        | 960,866        |
| Pension/FICA/Worker's Comp.                           | · ** | 145,940              |      | 165,530              | 75          | 175,071              | -  | 184,714    | 12.50  | 194,578        |
| Group Insurance                                       |      | 130,854              |      | 143,118              |             | 174,427              |    | 191,870    |        | 211,057        |
| State Unemployment                                    |      | 430                  |      | 430                  |             | 457                  |    | 484        |        | 511            |
| Meal Allowances/Sick Leave                            |      | 100                  |      | 100                  |             | 100                  |    | 100        |        | 100            |
| Misc, Labor   |      | 7,998                |      | 8,318                |             | 8,650                |    | 8,996      |        | 9,356          |
| Professional Services                                 |      | 250,000              |      | 249,995              |             | 257,952              |    | 266,147    |        | 274,589        |
| Insurance   |      | 78,910               |      | 81,650               |             | 81,650               |    | 81,650     |        | 81,650         |
| Tipping Fee   |      | 331,660              |      | 341,610              |             | 351,858              |    | 362,414    |        | 373,286        |
| Vehicle Related                                       |      | 951,831              |      | 952,244              |             | 980,934              |    | 1,010,485  |        | 1,040,922      |
| Supplies/Materials                                    |      | 78,140               |      | 79,303               |             | 81,089               |    | 82,917     |        | 84,788         |
| Clothing/Uniforms                                     |      | 6,771                |      | 6,774                |             | 6,850                |    | 6,927      |        | 7,007          |
| Books/Computer Equipment/Other Equipment              |      | 2,500                |      | 2,500                |             | 2,500                |    | 2,500      |        | 2,500          |
| Other Supplies  |      | 3,860                |      | 2,698                |             | 2,914                |    | 3,139      |        | 3,373          |
| Inter-Activity Natural Gas Fuel                       |      | 420                  |      | 437                  |             | 450                  |    | 463        |        | 477            |
| Inter-Activity Gas                                    |      | 72,724               |      | 72,890               |             | 73,061               |    | 73,237     |        | 73,418         |
| Budget Contingency                                    | 1000 | 760                  |      | 760                  | -           | 760                  |    | 760        | -      | 760            |
| Subtotal  | 5    | 2,837,075            | \$   | 2,917,184            | 2           | 3,056,694            | 2  | 3,185,276  | 2      | 3,319,238      |
| Commercial Collections                                | 5    | 1 696 040            |      | 1,202,000            |             | 1,000,007            |    | 1,992,978  |        | 2,098,532      |
| Salaries Pension/ECA/Marker's Comp.                   |      | 1,695,940<br>411,250 | 0040 | 1,787,720<br>464,900 | 4           | 1,889,807<br>491,794 | 3/ | 518,974    | 90     | 546,782        |
| Pension/FICA/Worker's Comp.                           |      | 374,309              |      | 411,878              |             | 491,794              |    | 548,662    |        | 6/13,529       |
| Group Insurance<br>State Unemployment                 |      | 1,130                |      | 1,130                |             | 1,200                |    | 1,271      |        | 1,343          |
| Meal Allowances/Sick Leave                            |      | 1,130                |      | 1,130                |             | 1,200                |    | 1,271      |        | 1,343          |
| Other Services  |      |                      |      |                      |             |                      |    |            |        |                |
| Travel/Training                                       |      | 3,920                |      | 3,920                |             | 3,920                |    | 3,920      |        | 3,920          |
| Professional Services                                 |      | 21,495               |      | 21,499               |             | 22,184               |    | 22,888     |        | 23,614         |
| Insurance   |      | 198,840              |      | 209,610              |             | 209,610              |    | 209,610    |        | 209,610        |

| 200   | Maintenance<br>Utilities                     |     | 5,006<br>8,592 |         | 5,156<br>8,811 |      | 5,311<br>9,037 |     | 5,470<br>9,268 |     | 5,63<br>9,50 |
|-------|--|-----|----------------|---------|----------------|------|----------------|-----|----------------|-----|--------------|
|       | Advertising/PR                               |     | 12,000         |         | 12,002         |      | 12,065         |     | 12,131         |     | 12,19        |
|       | Memberships/Subscriptions                    |     | 392            |         | 394            |      | 406            |     | 419            |     | 43           |
|       | Vehicle Related & Misc. Building Maintenance |     | 910,592        |         | 934,449        |      | 963,827        |     | 994,086        |     | 1,025,25     |
|       | Supplies/Materials                           |     | 6,112          |         | 6,248          |      | 6,387          |     | 6,530          |     | 6,67         |
|       | Food/Chemicals                               |     | 837            |         | 844            |      | 861            |     | 879            |     | 89           |
| **    | Clothing/Uniforms                            |     | 11,538         |         | 11,389         |      | 11,524         |     | 11,663         |     | 11,80        |
|       | Books/Computer Equipment/Other Equipment     |     | 64,396         |         | 64,402         |      | 64,419         |     | 64,436         |     | 64,45        |
|       | Other Supplies                               |     | 6,630          |         | 6,492          |      | 6,784          |     | 7,088          |     | 7,40         |
|       | Inter-Activity Natural Gas Fuel              |     | 1,785          |         | 1,856          |      | 1,912          |     | 1,969          |     | 2,00         |
|       | Inter-Activity Gas                           |     | 331,266        |         | 331,266        |      | 331,266        |     | 331,266        |     | 331,26       |
| th.   | Interactivity Credit                         |     | 11,430         |         | 23,200         |      | 23,200         |     | 23,200         |     | 23,20        |
|       | Subtotal                                     | 5   | 4,077,460      | 2       | 4,307,166      | 5    | 4,554,298      | 2   | 4,766,708      |     | 4,988,08     |
|       | 7000E  | 8   |                |         | 1,507,100      | 59   | 412777         | ã   | 4,100,100      |     | 4,500,00     |
|       | Container Maintenance                        | 92  | 222222         | 7/2=    | 25277 11325    | 323  | 0.00044400     | 7.0 | 6485163010     | 50  | 023352       |
| 21    | Salaries                                     | 5   | 322,740        | 2       | 339,450        | S    | 360,121        | ્ર  | 381,011        |     | 402,3        |
|       | Pension/FICA/Worker's Comp.                  |     | 74,130         |         | 83,810         |      | 88,923         |     | 94,090         |     | 99,3         |
|       | Group Insurance                              |     | 65,110         |         | 71,070         |      | 85,899         |     | 94,489         |     | 103,9        |
|       | State Unemployment                           |     | 230            |         | 230            |      | 244            |     | 259            |     | 2            |
|       | Professional Services                        |     | 21,495         |         | 21,499         |      | 22,184         |     | 22,888         |     | 23,6         |
| er i  | Insurance<br>Maintenance                     |     | 37,860         |         | 39,820         |      | 39,820         |     | 39,820         |     | 39,83        |
|       |  |     | 2,843          |         | 2,928          |      | 3,016          |     | 3,106          |     | 3,20         |
|       | Utilities                                    |     | 12,678         |         | 13,017         |      | 13,367         |     | 13,726         |     | 14,05        |
| * (   | Equipment Rent                               |     | 602            |         | 604            |      | 617            |     | 629            |     | 6            |
|       | Vehicle Related & Misc. Building Maintenance |     | 91,766         |         | 91,758         |      | 94,622         |     | 97,573         |     | 100,6        |
|       | Supplies/Materials                           |     | 462            |         | 474            |      | 487            |     | 500            |     | 5            |
|       | Food/Chemicals                               |     | 4,000          |         | 4,002          |      | 4,085          |     | 4,170          |     | 4,2          |
|       | Clothing/Uniforms                            |     | 5,720          |         | 5,632          |      | 5,695          |     | 5,761          |     | 5,8          |
|       | Books/Computer Equipment/Other Equipment     |     | 10,100         |         | 10,100         |      | 10,100         |     | 10,100         |     | 10,1         |
|       | Other Supplies                               |     | 122,190        |         | 123,738        |      | 128,379        |     | 133,190        |     | 138,1        |
| -     | Inter-Activity Natural Gas Fuel              |     | 420            |         | 437            |      | 450            |     | 463            |     | 4            |
|       | Inter-Activity Gas                           |     | 10,504         |         | 10,504         |      | 10,504         |     | 10,504         |     | 10,50        |
|       | Inter-Activity Oil Subtotal                  | 5   | 510            | Tarit . | 520            | -    | 531            | -   | 541            | -   | 5.           |
|       | Subtonia                                     | - 3 | 783,360        | 2       | 819,593        | 2    | 869,044        | 3   | 912,820        | \$  | 958,36       |
| . /   | Division Total                               | 3   | 16,852,577     | 3       | 17,663,022     | 3    | 18,596,639     | 3   | 19,424,007     | 5   | 20,284,75    |
|       |  | 208 |                |         |                |      |                |     |                |     | 10-120-3-140 |
|       | Refuse Disposal                              |     |                |         |                |      |                |     |                |     |              |
|       | Engineering and Technical Support            |     |                |         |                |      |                |     |                |     |              |
|       | Salaries                                     | 2   | 1,433,913      | 5       | 1,505,194      | 5    | 1,596,330      | 2   | 1,688,897      | 2   | 1,783,98     |
|       | Pension/FICA/Worker's Comp.                  |     | 282,250        |         | 320,760        |      | 340,494        |     | 360,435        |     | 380,8        |
|       | Group Insurance                              |     | 169,405        |         | 186,560        |      | 222,607        |     | 244,867        |     | 269,3        |
| -     | State Unemployment                           |     | 610            |         | 610            |      | 648            |     | 686            |     | 7.           |
|       | Travel/Training                              |     | 36,960         |         | 36,960         |      | 36,960         |     | 36,960         |     | 36,9         |
|       | Professional Services                        |     | 909,256        |         | 921,837        |      | 949,345        |     | 977,678        |     | 1,006,8      |
|       | Insurance                                    |     | 114,100        |         | 123,820        |      | 123,820        |     | 123,820        |     | 123,8        |
|       | Maintenance                                  |     | 738,500        |         | 766,167        |      | 785,982        |     | 815,361        |     | 835,3        |
|       | Telephone                                    |     | 15,466         |         | 15,929         |      | 16,408         |     | 16,900         |     | 17,4         |
|       | Equipment Rental                             |     | 490            |         | 490            |      | 500            |     | 510            |     |              |
| (8.7) | Eriv. Rentals                                |     | 115,306        |         | 117,328        |      | 119,390        |     | 121,494        |     | 123,6        |
|       | Advertising                                  |     | 103            |         | 96             |      | 99             |     | 103            |     | 1            |
|       | Licenses/Permits                             |     | 89,992         |         | 92,691         |      | 95,471         |     | 98,336         |     | 101,2        |
|       | Vehicle Related                              |     | 60,061         |         | 31,031         |      | 31,989         |     | 32,976         |     | 33,9         |
|       | Supplies/Materials                           |     | 24,681         |         | 24,641         |      | 25,199         |     | 25,536         |     | 26,1         |
|       | Food   |     | 816            |         | 832            |      | 849            |     | 866            |     | 8            |
|       | Uniforms/clothing                            |     | 5,481          |         | 5,447          |      | 5,566          |     | 5,689          |     | 5,8          |
|       | Books/Computer Equipment/Other Equipment     |     | 25,960         |         | 16,628         |      | 15,844         |     | 16,069         |     | 16,3         |
|       | Other Supplies                               |     | 30,936         |         | 31,562         |      | 32,823         |     | 34,134         |     | 35,4         |
|       | Inter-Activity Natural Gas Fuel              |     | 3,600          |         | 3,711          |      | 3,822          |     | 3,937          |     | 4,0          |
|       | Inter-Activity Gas                           |     | 11,640         |         | 11,748         |      | 11,859         |     | 11,973         |     | 12,0         |
|       | Interactivity Credit                         |     | (493,613)      |         | (517,384)      |      | (554,037)      |     | (593,444)      |     | (636,29      |
|       | OM O&M Impact for the Proforma               |     | 90,000         |         | 280,000        |      | 310,000        |     | 340,000        |     | 370,00       |
| 4     | Subtotal                                     | .5  | 3,665,913      | 2       | 3,976,657      | 5    | 4,171,968      | \$  | 4,363,783      | \$  | 4,549,30     |
|       | Landfill Operations                          |     |                |         |                |      |                |     |                |     |              |
|       | Salaries                                     | 5   | 1,158,090      | 5       | 1,215,900      | 5    | 1,285,730      | S   | 1,356,301      | 5   | 1,428,5      |
|       | Pension/FICA/Worker's Comp.                  |     | 277,730        |         | 312,890        | 17.0 | 331,058        | 7.3 | 349,418        | 177 | 368,20       |
| 1     | Group Insurance                              |     | 196,836        |         | 214,552        |      | 262,306        |     | 288,537        |     | 317,39       |
| -     | State Unemployment                           |     | 750            |         | 750            |      | 797            |     | 843            |     | 8            |
|       | Meal Allowances                              |     | 200            |         |                |      |                |     |                |     | - 2          |
|       | Travel/Training                              |     | 5,920          |         | 5,920          |      | 5,920          |     | 5,920          |     | 5,9          |
|       | Professional Services                        |     | 24,000         |         | 24,002         |      | 24,765         |     | 25,552         |     | 26,3         |
|       | Insurance                                    |     | 161,580        |         | 170,350        |      | 170,350        |     | 170,350        |     | 170,3        |
|       | Maintenance                                  |     | 180,487        |         | 185,902        |      | 191,479        |     | 197,223        |     | 203,1        |
|       | Utilities                                    |     | 78,020         |         | 80,407         |      | 82,876         |     | 85,427         |     |              |
| 200   | Equipment Rental                             |     | 2,060          |         | 2,066          |      |                |     |                |     | 88,0         |
|       |  |     |                |         |                |      | 2,112          |     | 2,159          |     | 2,20         |
|       | Advertising/PR                               |     | 500            |         | 500            |      | 500            |     | 500            |     |              |

| Licenses/Permits                           |     | 149,288    |       | 153,767    |          | 158,380    |    | 163,131    |      | 168,025    |    |
|--|-----|------------|-------|------------|----------|------------|----|------------|------|------------|----|
| Vehicle Related & Misc. Building           |     | 938,994    |       | 939,002    |          | 968,785    |    | 999,461    |      | 1,031,057  |    |
| Supplies/Materials                         |     | 802        |       | (3,542)    |          | (3,392)    |    | (3,237)    |      | (3,078)    |    |
| Food/Drugs/chemicals                       |     | 1,398      |       | 1,397      |          | 1,426      |    | 1,455      |      | 1,486      |    |
| Uniforms/clothing                          |     | 5,364      |       | (14)       |          | 163        |    | 346        |      | 534        |    |
| Books/Computer Equipment/Other Equipment   |     | 4,800      |       | 4,848      |          | 4,097      |    | 4,148      |      | 4,201      |    |
| Other Supplies                             |     | 24,069     |       | 23,926     |          | 24,974     |    | 26,064     |      | 27,197     |    |
| Inter-Activity Natural Gas Fuel            |     |            |       |            |          |            |    |            |      |            |    |
| Inter-Activity Gas                         |     | 311,480    |       | 311,480    |          | 311,480    |    | 311,480    |      | 311,480    |    |
| Interactivity Credit                       |     | (322,000)  |       | (322,000)  |          | (332,248)  |    | (342,804)  |      | (353,676)  |    |
| Subtotal                                   | S   | 3,200,168  | S     | 3,322,103  | 2        | 3,491,559  | \$ | 3,642,275  | 5    | 3,798,756  |    |
| Household Hazardous Waste Program          |     |            |       |            |          |            |    |            |      |            |    |
| Professional Services                      |     | 229,762    |       | 229,762    |          | 237,085    |    | 244,627    |      | 252,396    |    |
| Subtocal                                   | 2   | 229,762    | 2     | 229,762    | 2        | 237,085    | \$ | 244,627    | 2    | 252,396    |    |
| Division Total                             | 3   | 7,095,843  | 5     | 7,528,522  | 5        | 7,900,611  | 1  | 8,250,685  | 5    | 8,600,457  |    |
| Department Total                           | 3   | 27,937,673 | 3     | 29,303,181 | 5        | 30,855,013 | 5  | 32,249,516 | 5    | 33,688,170 |    |
|  | 123 |            |       |            | 20       | 504F25V23  | 72 | 1000000000 |      | 92257033   |    |
| Uncollectable Accounts                     | 2   | 558,753    | 2     | 586,064    |          | 617,100    | 2  | 644,990    | 2    | 673,763    | -  |
| Capital Fund Transfer                      |     | 200,000    |       | 500,000    |          | 500,000    |    | 500,000    | -    | 500,000    |    |
| Administrative Support Transfer            |     | 1,000,000  |       | 1,500,000  |          | 2,000,000  |    | 2,500,000  |      | 3,000,000  |    |
| Debt Service                               |     | 3,997,219  | 2     | 5,096,121  |          | 6,647,272  |    | 6,876,361  |      | 7,383,070  |    |
| Closure Costs                              |     | 609,655    | r (3) | 609,655    |          | 609,655    |    | 609,655    | 20.7 | 609,655    | 20 |
| Post Closure Care Costs                    |     | 1,013,531  | 14    | 1,023,996  | 1400     | 1,034,775  |    | 1,045,877  |      | 1,057,313  | 6  |
| Capital Reserve Fund for Vehicle Purchases | -11 | 2,020,198  |       | 1,924,099  | <u> </u> | 4,434,632  | _  | 3,855,811  | -    | 4,688,746  |    |
| Subtotal                                   | 2   | 9,699,354  | 2     | 11,239,935 | \$       | 15,843,434 | 2  | 16,032,694 | 2    | 17,912,547 |    |
| Revenue Off-Sets                           |     |            |       |            |          |            |    | E          |      |            |    |
| Refuse Penalties                           | 5   | 250,000    | 2     | 250,000    | 5        | 250,000    | \$ | 250,000    | \$   | 250,000    |    |
| Recycling Revenue                          |     | 500,000    |       | 500,000    |          | 500,000    | _  | 500,000    |      | 500,000    |    |
| Subtotal                                   | 2   | 750,000    | 2     | 750,000    | \$       | 750,000    | \$ | 750,000    | \$   | 750,000    |    |
| Total Revenue Requirement                  | 5   | 36,887,027 | 5     | 39,793,116 | 5        | 45,948,448 | 5  | 47,532,210 | 5    | 50,850,717 |    |

City of Tucson
Environmental Services
FY 2004/05 - 2008/09 Revenue Requirement Summary

|                       |       |            |     |            | = 511 -000/61006 |            |      | Manual Services | CONTRACTOR STREET |            |  |
|-----------------------|-------|------------|-----|------------|------------------|------------|------|-----------------|-------------------|------------|--|
|                       | 1     | FY 2004/05 | [0] | FY 2005/06 |                  | FY 2006/07 |      | FY 2007/08      |                   | FY 2008/09 |  |
| Residential           | 276   |            |     |            |                  |            |      |                 |                   |            |  |
| Administration        | 18    | 1,583,953  | S   | 1,663,459  | \$               | 1,811,407  | \$   | 1,935,355       | 5                 | 2,068,81   |  |
| Collection            | .55   | 14,131,308 |     | 15,276,443 |                  | 17,328,277 |      | 18,101,196      | 7/                | 19,416,67  |  |
| Disposal Operations   |       | 2,799,505  |     | 3,002,955  |                  | 3,617,534  |      | 3,650,452       |                   | 3,890,19   |  |
| Disposal Remediation  |       | 1,417,756  |     | 1,551,361  |                  | 1,714,079  |      | 1,780,505       |                   | 1,887,28   |  |
| Clean Tucson          |       |            |     |            |                  |            |      |                 |                   |            |  |
| Administration        |       | 59,463     |     | 62,390     |                  | 67,941     |      | 72,558          |                   | 77,53      |  |
| Collection            |       | 2,428,676  |     | 2,557,270  |                  | 2,953,367  |      | 3,051,397       |                   | 3,257,06   |  |
| Disposal Operations   |       | -234,152   |     | 241,177    |                  | 248,412    |      | 255,864         |                   | 263,54     |  |
| Disposal Remediation  | F 500 | 97,508     | 11  | 100,433    |                  | 103,446    |      | 106,550         |                   | 109,74     |  |
| Subtotal              | (5)   | 22,752,321 | s   | 24,455,488 | s                | 27,844,462 | S    | 28,953,878      | S                 | 30,970,85  |  |
| Commercial Dumpsters  |       |            | 5   |            |                  |            |      |                 |                   |            |  |
| Administration        | \$    | 131,298    | 2   | 137,711    | 5                | 149,613    | \$   | 159,703         | 2                 | 170,64     |  |
| Collection            |       | 3,558,430  |     | 3,884,518  | 0.70             | 4,674,439  | 53   | 4,841,252       | -                 | 5,229,06   |  |
| Disposal Operations   |       | 1,206,062  |     | 1,300,289  |                  | 1,582,391  |      | 1,593,159       |                   | 1,700,28   |  |
| Disposal Remediation  |       | 671,547    |     | 734,830    |                  | 811,880    |      | 843,348         |                   | 893,92     |  |
| Container Maintenance |       | 842,607    |     | 896,572    |                  | 990,799    |      | 1,044,157       |                   | 1,112,05   |  |
| Subtotal              | 5     | 6,409,944  | 5   | 6,953,920  | S                | 8,209,122  | S    | 8,481,620       | 5                 | 9,105,96   |  |
| Commercial Roll-offs  |       |            |     |            |                  |            |      |                 |                   |            |  |
| Administration        | S     | 3,629      | 2   | 3,819      | \$               | 4,172      | S    | 4,471           | \$                | 4,79       |  |
| Collection            |       | 962,178    | 100 | 1,054,432  |                  | 1,274,360  |      | 1,322,843       |                   | 1,432,11   |  |
| Disposal Operations   |       | 372,241    |     | 401,324    |                  | 488,392    |      | 491,716         |                   | 524,77     |  |
| Disposal Remediation  |       | 207,268    |     | 226,799    |                  | 250,580    |      | 260,293         |                   | 275,90     |  |
| Container Maintenance |       | 25,063     |     | 26,668     |                  | 29,471     |      | 31,058          |                   | 33,07      |  |
| Subtotal              | 5     | 1,570,378  | \$  | 1,713,041  | S                | 2,046,975  | S    | 2,110,380       | S                 | 2,270,66   |  |
| Privates/Self Haulers |       |            |     |            |                  |            |      |                 |                   |            |  |
| Disposal Operations   | \$    | 3,953,202  | 5   | 4,262,059  | 5                | 5,186,726  | \$   | 5,222,023       | 5                 | 5,573,15   |  |
| Disposal Remediation  |       | 2,201,182  | 262 | 2,408,608  |                  | 2,661,162  | 1080 | 2,764,309       |                   | 2,930,07   |  |
| Subtotal              | S     | 6,154,384  | s   | 6,670,667  | s                | 7,847,888  | 5    | 7,986,331       | s                 | 8,503,23   |  |
| Total                 | 5     | 36,887,027 | S   | 39,793,116 | 5                | 45,948,448 | 5    | 47,532,210      | 5                 | 50,850,71  |  |

#### City of Tucson Environmental Services Residential Rates - Five Year Projections

|   | 1  | FY 2004/05 | 9  | FY 2005/06    | 1        | FY 2006/07                              | 18 | FY 2007/08 |    | FY 2008/09 |
|---|----|------------|----|---------------|----------|---|----|------------|----|------------|
| Cost Allocations Residential Services / Collections | 21 | 0.000.000  |    | F 3 9 F 1 1 4 | Segnor . | 120000000000000000000000000000000000000 | 2  | 0.00000000 | 20 | 274 327204 |
| Administration                                      | \$ | 1,583,953  | S  | 1,663,459     | \$       | 1,811,407                               | \$ | 1,935,355  | \$ | 2,068,819  |
| Collections   |    | 14,131,308 |    | 15,276,443    |          | 17,328,277                              |    | 18,101,196 |    | 19,416,678 |
| Disposal Operations                                 |    | 2,799,505  |    | 3,002,955     |          | 3,617,534                               |    | 3,650,452  |    | 3,890,197  |
| Disposal Remediation                                | -  | 1,417,756  | _  | 1,551,361     | _        | 1,714,079                               | _  | 1,780,505  |    | 1,887,284  |
| Subtotal  | \$ | 19,932,522 | S  | 21,494,218    | 2        | 24,471,296                              | 2  | 25,467,509 | \$ | 27,262,977 |
| Clean Tucson  |    |            |    |               |          |   |    |            |    |            |
| Administration                                      | \$ | 59,463     | \$ | 62,390        | \$       | 67,941                                  | 5  | 72,558     | S  | 77,531     |
| Collection  |    | 2,428,676  |    | 2,557,270     |          | 2,953,367                               |    | 3,051,397  |    | 3,257,06   |
| Disposal Operations                                 |    | 234,152    |    | 241,177       |          | 248,412                                 |    | 255,864    |    | 263,540    |
| Disposal Remediation                                |    | 97,508     |    | 100,433       |          | 103,446                                 |    | 106,550    |    | 109,746    |
| Community Subsidies:                                |    |            |    |               |          |   |    |            |    |            |
| Neighborhood Rolloffs                               |    | 21,454     |    | 23,156        |          | 27,312                                  |    | 27,798     |    | 29,55      |
| Self-Haulers  |    | 571,260    |    | 454,340       |          | 472,420                                 |    | 267,060    |    | 143,210    |
| Non-profits and NRC's                               |    | 569,224    |    | 612,660       |          | 723,338                                 |    | 736,339    |    | 782,019    |
| Subtotal  | 5  | 3,981,738  | \$ | 4,051,426     | 5        | 4,596,237                               | 2  | 4,517,566  | \$ | 4,662,66   |
| Total Cost  | S  | 23,914,260 | S  | 25,545,644    | S        | 29,067,533                              | s  | 29,985,075 | s  | 31,925,63  |
| Residential Customers                               |    | 141,571    |    | 143,971       |          | 146,371                                 |    | 148,771    |    | 151,17     |
| Total Monthly Rate                                  | S  | 14.08      | 5  | 14.79         | S        | 16.55                                   | S  | 16.80      | S  | 17.6       |

| FY 2004/05                                      |                | 8-1-11    |
|---|----------------|-----------|
| Cost Allocations                                |                |           |
| Administration                                  | \$             | 131,298   |
| Collections                                     |                | 3,558,430 |
| Disposal - Operations                           |                | 1,206,062 |
| Disposal - Remediation                          |                | 671,547   |
| Container Maintenance                           | 2              | 842,607   |
| Total   | S              | 6,409,944 |
| Unit Costs                                      |                |           |
| Administration (per Container per Month)        | S              | 2.00      |
| Collections (per "pull")                        | S              | 6.47      |
| Disposal - Operations (per Cubic Yard)          | \$<br>\$<br>\$ | 0.40      |
| Disposal - Remediation (per Cubic Yard)         | \$             | 0.22      |
| Container Maintenance (per Container per Month) | \$             | 12.81     |

#### Monthly Dumpster Rates for FY 2004/05

| Dumpster   | RITE. | NA SECTION | Care I |        | Filtr | Collection | ıs Pe | r Week |    | Carle Nes | aris) |        |
|------------|-------|------------|--------|--------|-------|------------|-------|--------|----|-----------|-------|--------|
| Size       |       | 1          |        | 2      |       | 3          |       | 4      |    | 5         |       | 6      |
| 1          | S     | 45.55      | \$     | 76.29  | \$    | 107.03     | S     | 137.77 | \$ | 168.51    | \$    | 199.25 |
| 2          | S     | 48.24      | S      | 81.68  | \$    | 115.11     | \$    | 148.54 | \$ | 181.98    | \$    | 215.41 |
| 2.75       | \$    | 50.26      | S      | 85.72  | \$    | 121.17     | S     | 156.62 | S  | 192.08    | \$    | 227.53 |
| 3          | \$    | 50.94      | S      | 87.06  | \$    | 123.19     | \$    | 159.32 | \$ | 195.44    | \$    | 231.57 |
| 3.5        | \$    | 52.28      | S      | 89.76  | \$    | 127.23     | S     | 164.70 | \$ | 202.18    | \$    | 239.65 |
| 4          | \$    | 53.63      | S      | 92.45  | \$    | 131,27     | S     | 170.09 | S  | 208.91    | \$    | 247.73 |
| 5          | S     | 56.32      | S      | 97.84  | \$    | 139.35     | \$    | 180.86 | S  | 222.38    | \$    | 263.89 |
| 6          | \$    | 59.02      | \$     | 103.22 | \$    | 147.43     | S     | 191.64 | S  | 235.84    | \$    | 280.05 |
| 8          | S     | 64.40      | S      | 114.00 | \$    | 163.59     | S     | 213.18 | \$ | 262.78    | \$    | 312.37 |
| Recycling* | \$    | 42.86      | S      | 70.90  | \$    | 98.95      | S     | 127.00 | S  | 155.04    | \$    | 183.09 |

<sup>\*</sup> City of Tucson policy provides a 50% discount to Commercial Customers for Recycling Services

| FY 2005/06                                      |          | 17451     |
|---|----------|-----------|
| Cost Allocations                                |          |           |
| Administration                                  | \$       | 137,711   |
| Collections                                     |          | 3,884,518 |
| Disposal - Operations                           |          | 1,300,289 |
| Disposal - Remediation                          |          | 734,830   |
| Container Maintenance                           |          | 896,572   |
| Total   | S        | 6,953,920 |
| Unit Costs                                      |          |           |
| Administration (per Container per Month)        | \$       | 2.05      |
| Collections (per "pull")                        | \$       | 6.93      |
| Disposal - Operations (per Cubic Yard)          | \$       | 0.42      |
| Disposal - Remediation (per Cubic Yard)         | \$<br>\$ | 0.24      |
| Container Maintenance (per Container per Month) | \$       | 13.37     |

#### Monthly Dumpster Rates for FY 2005/06

| Dumpster   |    |       |    |        | #H | Collection | ıs Pe | r Week | 150 |        | 4150 |        |
|------------|----|-------|----|--------|----|------------|-------|--------|-----|--------|------|--------|
| Size       |    | 177   |    | 2      |    | 3          |       | 4      |     | 5      |      | 6      |
| 1          | \$ | 48.30 | S  | 81.18  | \$ | 114.05     | S     | 146.93 | \$  | 179.81 | \$   | 212.69 |
| 2          | \$ | 51.16 | \$ | 86.90  | \$ | 122.64     | S     | 158.38 | \$  | 194.12 | \$   | 229.86 |
| 2.75       | \$ | 53.31 | S  | 91.19  | \$ | 129.08     | S     | 166.97 | \$  | 204.85 | \$   | 242.74 |
| 3          | \$ | 54,02 | S  | 92.62  | \$ | 131.23     | S     | 169.83 | \$  | 208.43 | \$   | 247.03 |
| 3.5        | \$ | 55.45 | S  | 95.49  | \$ | 135.52     | S     | 175.55 | \$  | 215.59 | \$   | 255.62 |
| 4          | \$ | 56.88 | S  | 98.35  | \$ | 139.81     | S     | 181.28 | \$  | 222.74 | \$   | 264.21 |
| 5          | S  | 59.75 | \$ | 104.07 | S  | 148.40     | S     | 192.73 | \$  | 237.05 | S    | 281.38 |
| 6          | S  | 62.61 | S  | 109.80 | S  | 156.99     | \$    | 204.17 | \$  | 251.36 | \$   | 298.55 |
| 8          | S  | 68.33 | \$ | 121.25 | S  | 174.16     | S     | 227.07 | \$  | 279.98 | \$   | 332.90 |
| Recycling* | S  | 45.44 | \$ | 75.45  | \$ | 105.47     | \$    | 135.49 | \$  | 165.50 | \$   | 195.52 |

<sup>\*</sup> City of Tucson policy provides a 50% discount to Commercial Customers for Recycling Services

| FY 2006/07                                      |                |           |
|---|----------------|-----------|
| Cost Allocations                                |                |           |
| Administration                                  | \$             | 149,613   |
| Collections                                     |                | 4,674,439 |
| Disposal - Operations                           |                | 1,582,391 |
| Disposal - Remediation                          |                | 811,880   |
| Container Maintenance                           |                | 990,799   |
| Total   | S              | 8,209,122 |
| Unit Costs                                      |                |           |
| Administration (per Container per Month)        | \$             | 2.19      |
| Collections (per "pull")                        | \$             | 8.17      |
| Disposal - Operations (per Cubic Yard)          | \$<br>\$<br>\$ | 0.50      |
| Disposal - Remediation (per Cubic Yard)         | \$             | 0.26      |
| Container Maintenance (per Container per Month) | \$             | 14.48     |

#### Monthly Dumpster Rates for FY 2006/07

| Dumpster   |    | Collections Per Week |    |        |    |        |     |        |    |        |    |        |  |
|------------|----|----------------------|----|--------|----|--------|-----|--------|----|--------|----|--------|--|
| Size       |    | 1                    |    | 2      |    | 3      | 183 | 4      |    | 5      |    | 6      |  |
| 1          | S  | 55.38                | \$ | 94.09  | \$ | 132.81 | \$  | 171.52 | S  | 210.23 | \$ | 248.95 |  |
| 2          | S  | 58.68                | \$ | 100.70 | \$ | 142.71 | S   | 184.73 | S  | 226.74 | \$ | 268.75 |  |
| 2.75       | S  | 61.16                | \$ | 105.65 | \$ | 150.14 | \$  | 194.63 | S  | 239.12 | \$ | 283.61 |  |
| 3          | S  | 61.98                | \$ | 107.30 | \$ | 152.61 | \$  | 197.93 | \$ | 243.25 | \$ | 288.56 |  |
| 3.5        | S  | 63.63                | \$ | 110.60 | \$ | 157.57 | \$  | 204.53 | S  | 251.50 | \$ | 298.46 |  |
| 4          | \$ | 65.29                | \$ | 113.90 | \$ | 162.52 | \$  | 211.13 | S  | 259.75 | \$ | 308.37 |  |
| 5          | \$ | 68.59                | \$ | 120.50 | \$ | 172.42 | \$  | 224,34 | S  | 276.26 | S  | 328.17 |  |
| 6          | \$ | 71.89                | \$ | 127,11 | \$ | 182.32 | \$  | 237.54 | S  | 292.76 | \$ | 347.98 |  |
| 8          | S  | 78.49                | \$ | 140.31 | \$ | 202.13 | \$  | 263.95 | S  | 325.77 | \$ | 387.59 |  |
| Recycling* | \$ | 52.08                | \$ | 87.49  | \$ | 122.90 | \$  | 158.32 | S  | 193.73 | \$ | 229.14 |  |

<sup>\*</sup> City of Tucson policy provides a 50% discount to Commercial Customers for Recycling Services

| 2  | 159,703                          |
|----|----------------------------------|
|    | 4,841,252                        |
|    | 1,593,159                        |
|    |                                  |
|    | 843,348                          |
| -  | 1,044,157                        |
| S  | 8,481,620                        |
|    |                                  |
| 6  | 2.29                             |
| \$ | 8.30                             |
| \$ | 0.50                             |
|    |                                  |
|    | 0.26<br>14.96                    |
|    | \$<br>\$<br>\$<br>\$<br>\$<br>\$ |

### Monthly Dumpster Rates for FY 2007/08

| Dumpster   |    |               |            |        | NES. | Collection | ns Pe | er Week |    | inere noth | 25.4 | fi silosetti. |
|------------|----|---------------|------------|--------|------|------------|-------|---------|----|------------|------|---------------|
| Size       | 開放 | <b>1</b> 1000 | <b>使用是</b> | 2      |      | 3          | 250   | 4       |    | 5          | 學情,即 | 6             |
| 1          | \$ | 56.50         | \$         | 95.75  | \$   | 135.00     | \$    | 174.25  | S  | 213.50     | S    | 252.75        |
| 2          | \$ | 59.79         | \$         | 102.34 | S    | 144.88     | \$    | 187.43  | S  | 229.97     | S    | 272.51        |
| 2.75       | \$ | 62.26         | S          | 107.28 | \$   | 152.29     | S     | 197.31  | S  | 242.32     | S    | 287.33        |
| 3          | S  | 63.09         | \$         | 108.93 | \$   | 154.76     | S     | 200.60  | S  | 246.44     | \$   | 292.27        |
| 3.5        | \$ | 64.73         | \$         | 112.22 | \$   | 159.70     | \$    | 207.19  | S  | 254.67     | \$   | 302.15        |
| 4          | \$ | 66.38         | \$         | 115.51 | \$   | 164.64     | \$    | 213.77  | S  | 262.90     | S    | 312.03        |
| 5          | \$ | 69.68         | \$         | 122.10 | S    | 174.52     | \$    | 226.95  | S  | 279.37     | S    | 331.79        |
| 6          | S  | 72.97         | S          | 128.69 | \$   | 184.40     | S     | 240.12  | S  | 295.84     | \$   | 351.79        |
| 8          | S  | 79.56         | \$         | 141.86 | \$   | 204.16     | S     | 266.47  | \$ | 328.77     | 9    | 391.08        |
| Recycling* | \$ | 53.21         | \$         | 89.16  | \$   | 125.12     | \$    | 161.08  | S  | 197.03     | \$   | 232.99        |

<sup>\*</sup> City of Tucson policy provides a 50% discount to Commercial Customers for Recycling Services

| FY 2008/09                                      |        |           |
|---|--------|-----------|
| Cost Allocations                                |        |           |
| Administration                                  | \$     | 170,643   |
| Collections                                     | 1571.  | 5,229,067 |
| Disposal - Operations                           |        | 1,700,285 |
| Disposal - Remediation                          |        | 893,921   |
| Container Maintenance                           |        | 1,112,051 |
| Total   | S      | 9,105,967 |
| Unit Costs                                      |        |           |
| Administration (per Container per Month)        | \$     | 2.40      |
| Collections (per "pull")                        | S      | 8.79      |
| Disposal - Operations (per Cubic Yard)          | S      | 0.52      |
| Disposal - Remediation (per Cubic Yard)         | s<br>s | 0.27      |
| Container Maintenance (per Container per Month) | S      | 15.62     |

#### Monthly Dumpster Rates for FY 2008/09

| Dumpster   | in the same |       |    |        | 1250 | Collection | ıs Pe | r Week |    | THE PERSON | ikile |        |
|------------|-------------|-------|----|--------|------|------------|-------|--------|----|------------|-------|--------|
| Size       |             | 1     |    | 2      |      | 3          |       | 4      |    | 5          |       | 6      |
| 1          | \$          | 59.53 | \$ | 101.05 | \$   | 142.56     | \$    | 184.07 | S  | 225.59     | \$    | 267.10 |
| 2          | \$          | 62.97 | \$ | 107.92 | \$   | 152.87     | S     | 197.83 | S  | 242.78     | \$    | 287.73 |
| 2.75       | \$          | 65.55 | \$ | 113.08 | \$   | 160.61     | S     | 208.14 | \$ | 255.67     | S     | 303.20 |
| 3          | S           | 66.41 | \$ | 114.80 | \$   | 163.19     | \$    | 211.58 | \$ | 259.97     | S     | 308.35 |
| 3.5        | \$          | 68.13 | S  | 118.24 | S    | 168.34     | S     | 218.45 | \$ | 268.56     | \$    | 318.67 |
| 4          | \$          | 69.85 | S  | 121.67 | \$   | 173.50     | \$    | 225.33 | \$ | 277.15     | \$    | 328.98 |
| 5          | \$          | 73.29 | \$ | 128.55 | \$   | 183.81     | \$    | 239.08 | \$ | 294.34     | \$    | 349.61 |
| 6          | \$          | 76.72 | \$ | 135.43 | \$   | 194.13     | \$    | 252.83 | \$ | 311.53     | \$    | 370.24 |
| 8          | \$          | 83.60 | \$ | 149.18 | \$   | 214.76     | \$    | 280,33 | S  | 345.91     | S     | 411.49 |
| Recycling* | \$          | 56.10 | \$ | 94.17  | \$   | 132.25     | \$    | 170.32 | S  | 208.40     | S     | 246.47 |

<sup>\*</sup> City of Tucson policy provides a 50% discount to Commercial Customers for Recycling Services

| FY 2004/05                                      |       |           |
|---|-------|-----------|
| Cost Allocations                                |       |           |
| Commercial Roll-offs                            |       |           |
| Administration                                  | \$    | 3,629     |
| Collections                                     |       | 962,178   |
| Disposal - Operations                           |       | 372,241   |
| Disposal - Remediation                          |       | 207,268   |
| Container Maintenance                           | 15.00 | 25,063    |
|   | \$    | 1,570,378 |
|   |       |           |
| Monthly Unit Costs                              |       |           |
| Administration (per Container per month)        | \$    | 1.86      |
| Collections (per "pull")                        |       | 88.70     |
| Container Maintenance (per Container per month) |       | 12.81     |
| Disposal Fees (Per Ton):                        | S     | 23.18     |
| Cost  |       |           |
| Commercial Roll offs                            |       |           |
| Disposal - Operations                           |       | 372,241   |
| Disposal - Remediation                          |       | 207,268   |
| Privates/Self Haulers                           |       |           |
| Disposal Operations                             |       | 3,953,202 |
| Disposal Remediation                            |       | 2,201,182 |
| Total   |       | 6,733,893 |
| Гоппаде   |       |           |
| Roll-offs                                       |       | 25,000    |
| City Depts                                      |       | 38,500    |
| 1427 473 (0.473)                                |       | 170,000   |
| Privates  |       |           |
| Self Haulers                                    |       | 57,000    |

#### Monthly Roll-Off Rates for FY 2004/05

| Roll-off Si | 70 | ES NE  |              | Si. | Collection | ns P | A NOTE . | 1. 4. 5.       |    |          |
|-------------|----|--------|--------------|-----|------------|------|----------|----------------|----|----------|
| 1011-011-51 |    | 1      | 2            |     | 3          | 10   | 4        | 5              |    | 6        |
| 20          | S  | 399.02 | \$<br>783.37 | s   | 1,167.72   | \$   | 1,552.07 | \$<br>1,936.42 | S  | 2,320.77 |
| 30          | S  | 399.02 | \$<br>783.37 | S   | 1,167.72   | \$   | 1,552.07 | \$<br>1,936,42 | S  | 2,320.77 |
| 40          | \$ | 399.02 | \$<br>783.37 | S   | 1,167.72   | \$   | 1,552.07 | \$<br>1,936.42 | \$ | 2,320.77 |

<sup>\*</sup> Customers are currently charged a \$23 per ton landfill tip fee in addition to the monthly rates

| FY 2005/06   |    |           |
|--|----|-----------|
| Cost Allocations   |    |           |
| Commercial Roll-offs   |    |           |
| Administration   | S  | 3,819     |
| Collections  |    | 1,054,432 |
| Disposal - Operations  |    | 401,324   |
| Disposal - Remediation   |    | 226,799   |
| Container Maintenance  |    | 26,668    |
| To the second se | \$ | 1,713,041 |
| Monthly Unit Costs   |    |           |
| Administration (per Container per month)   | 2  | 1.91      |
| Collections (per "pull")   |    | 95.29     |
| Container Maintenance (per Container per month)  |    | 13.37     |
|  |    |           |
| Disposal Fees (Per Ton):   | s  | 25.12     |
| Cost   |    |           |
| Commercial Roll offs   |    |           |
| Disposal - Operations  |    | 401,324   |
| Disposal - Remediation   |    | 226,799   |
| Privates/Self Haulers  |    | 0.11.00   |
| Disposal Operations  |    | 4,262,059 |
| Disposal Remediation   |    | 2,408,608 |
| Total  |    | 7,298,790 |
| Tonnage  |    | 10        |
| Roll-offs  |    | 25,000    |
| City Depts   |    | 38,500    |
| Privates   |    | 170,000   |
| Self Haulers   |    | 57,000    |
| Total  |    | 290,500   |

#### Monthly Roll-Off Rates for FY 2005/06

| Roll-off Size |    |        |     | 0. 15  | 134 | Collection | Tall Sta | Tage 1   |    |          |    |          |
|---------------|----|--------|-----|--------|-----|------------|----------|----------|----|----------|----|----------|
|               |    | 1      | 365 | 2      | 16  | 3          |          | 4        |    | 5        | He | 6        |
| 20            | \$ | 428.22 | \$  | 841.17 | \$  | 1,254.11   | S        | 1,667.05 | \$ | 2,080.00 | S  | 2,492.94 |
| 30            | S  | 428.22 | \$  | 841.17 |     | 1,254.11   | \$       | 1,667.05 | \$ | 2,080.00 | \$ | 2,492.94 |
| 40            | S  | 428.22 | \$  | 841.17 | S   | 1,254.11   | \$       | 1,667.05 | \$ | 2,080.00 | \$ | 2,492.94 |

<sup>\*</sup> Customers are currently charged a \$23 per ton landfill tip fee in addition to the monthly rates

| FY 2006/07                                      |    |           |
|---|----|-----------|
| Cost Allocations                                |    |           |
| Commercial Roll-offs                            |    |           |
| Administration                                  | \$ | 4,172     |
| Collections                                     |    | 1,274,360 |
| Disposal - Operations                           |    | 488,392   |
| Disposal - Remediation                          |    | 250,580   |
| Container Maintenance                           |    | 29,471    |
|   | S  | 2,046,975 |
|   |    |           |
| Monthly Unit Costs                              |    |           |
| Administration (per Container per month)        | \$ | 2.05      |
| Collections (per "pull")                        |    | 112.91    |
| Container Maintenance (per Container per month) |    | 14.48     |
| Disposal Fees (Per Ton):                        | s  | 29.56     |
| Cost  | 3  | 49.50     |
| Commercial Roll offs                            |    |           |
| Disposal - Operations                           |    | 488,392   |
| Disposal - Remediation                          |    | 250,580   |
| Privates/Self Haulers                           |    | 230,360   |
| Disposal Operations                             |    | 5,186,726 |
| Disposal Remediation                            |    | 2,661,162 |
| Total .   |    | 8,586,860 |
| Гоппаде   |    |           |
| Roll-offs                                       |    | 25,000    |
| City Depts                                      |    | 38,500    |
| Privates  |    | 170,000   |
| Self Haulers                                    |    | 57,000    |
| rotal rotal                                     |    | 290,500   |

#### Monthly Roll-Off Rates for FY 2006/07

| Roll-off Siz  |              | LESS. |        | 164 | Collection | ns P | er Week  | 12  | Section for | All fait.      |
|---------------|--------------|-------|--------|-----|------------|------|----------|-----|-------------|----------------|
| 14011 011 512 | 1            | 187   | 2      |     | 3          |      | 4        | i i | 5           | 6              |
| 20            | \$<br>505.82 | \$    | 995.11 | \$  | 1,484,40   | \$   | 1,973.68 | S   | 2,462.97    | \$<br>2,952.26 |
| 30            | \$<br>505.82 | \$    | 995.11 | \$  | 1,484.40   | \$   | 1,973.68 | \$  | 2,462.97    | \$<br>2,952.26 |
| 40            | \$<br>505.82 | \$    | 995.11 | \$  | 1,484.40   | S    | 1,973.68 | \$  | 2,462.97    | \$<br>2,952.20 |

<sup>\*</sup> Customers are currently charged a \$23 per ton landfill tip fee in addition to the monthly rates

| FY 2007/08                                      |   |            |
|---|---|------------|
| Cost Allocations                                |   |            |
| Commercial Roll-offs                            |   |            |
| Administration                                  | S | 4,471      |
| Collections                                     |   | 1,322,843  |
| Disposal - Operations                           |   | 491,716    |
| Disposal - Remediation                          |   | 260,293    |
| Container Maintenance                           |   | 31,058     |
|   | s | 2,110,380  |
| Monthly Unit Costs                              |   |            |
| Administration (per Container per month)        | S | 2.15       |
| Collections (per "pull")                        |   | 114.91     |
| Container Maintenance (per Container per month) |   | 14.96      |
| Disposal Fees (Per Ton):                        | s | 30.08      |
| Cost  | - |            |
| Commercial Roll offs                            |   |            |
| Disposal - Operations                           |   | 491,716    |
| Disposal - Remediation                          |   | 260,293    |
| Privates/Self Haulers                           |   | 8.5375.551 |
| Disposal Operations                             |   | 5,222,023  |
| Disposal Remediation                            |   | 2,764,309  |
| Total   |   | 8,738,340  |
| Tonnage   |   |            |
| Roll-offs                                       |   | 25,000     |
| City Depts                                      |   | 38,500     |
| Privates  |   | 170,000    |
| Self Haulers                                    |   | 57,000     |
| Total   |   | 290,500    |

#### Monthly Roll-Off Rates for FY 2007/08

| Roll-off Siz | e        |        |    |          | Collection     | ns P | er Week  |   |          | 3 4 4 |          |
|--------------|----------|--------|----|----------|----------------|------|----------|---|----------|-------|----------|
|              | The same | 1      | Ť. | 2        | 3              |      | 4        |   | 5        | 州省    | 6        |
| 20           | \$       | 515.06 | \$ | 1,013.00 | \$<br>1,510.95 | s    | 2,008.89 | S | 2,506.83 | \$    | 3,004.78 |
| 30           | \$       | 515.06 | \$ | 1,013.00 | \$<br>1,510.95 | \$   | 2,008.89 | S | 2,506.83 | \$    | 3,004.78 |
| 40           | \$       | 515.06 | \$ | 1,013.00 | \$<br>1,510.95 | \$   | 2,008.89 | S | 2,506.83 | S     | 3,004.78 |

<sup>\*</sup> Customers are currently charged a \$23 per ton landfill tip fee in addition to the monthly rates

| FY 2008/09                                      |         |           |
|---|---------|-----------|
| Cost Allocations                                |         |           |
| Commercial Roll-offs                            |         |           |
| Administration                                  | \$      | 4,795     |
| Collections                                     |         | 1,432,111 |
| Disposal - Operations                           |         | 524,779   |
| Disposal - Remediation                          |         | 275,901   |
| Container Maintenance                           |         | 33,077    |
|   | S       | 2,270,664 |
| Monthly Unit Costs                              |         |           |
| Administration (per Container per month)        | S       | 2.26      |
| Collections (per "pull")                        | C357    | 121.96    |
| Container Maintenance (per Container per month) |         | 15.62     |
| Disposal Fees (Per Ton):                        | s       | 32.03     |
| Cost  | \$100 A | 32.03     |
| Commercial Roll offs                            |         |           |
| Disposal - Operations                           |         | 524,779   |
| Disposal - Remediation                          |         | 275,901   |
| Privates/Self Haulers                           |         | 7.5       |
| Disposal Operations                             |         | 5,573,157 |
| Disposal Remediation                            |         | 2,930,073 |
| Total   |         | 9,303,911 |
| Tonnage   |         |           |
| Roll-offs                                       |         | 25,000    |
| City Depts                                      |         | 38,500    |
| Privates  |         | 170,000   |
| Self Haulers                                    |         | 57,000    |
| Total   |         | 290,500   |

### Monthly Roll-Off Rates for FY 2008/09

| Roll-off Size |    | FEE S  |     | 11.08    | 3  | Collection | ns P | er Week  | No. of the last |                |
|---------------|----|--------|-----|----------|----|------------|------|----------|-----------------|----------------|
| Roll off Size |    | 1      | , E | 2        |    | 3          |      | 4        | 5               | 6              |
| 20            | S  | 546.39 | \$  | 1,074.90 | \$ | 1,603.40   | S    | 2,131.90 | \$<br>2,660.41  | \$<br>3,188.91 |
| 30            | \$ | 546.39 | \$  | 1,074.90 | \$ | 1,603.40   | \$   | 2,131.90 | \$<br>2,660.41  | \$<br>3,188.91 |
| 40            | \$ | 546.39 | \$  | 1,074.90 | \$ | 1,603.40   | \$   | 2,131.90 | \$<br>2,660.41  | \$<br>3,188.91 |

<sup>\*</sup> Customers are currently charged a \$23 per ton landfill tip fee in addition to the monthly rates

#### City of Tucson Environmental Services Subsidies Paid by Residential Customers - FY 2004/05

| Annual Tonnage      | 57,000          |
|---------------------|-----------------|
| Per ton tipping fee | \$<br>23.18     |
| Total Annual Cost   | \$<br>1,321,260 |
| Self Haul Fees      | \$<br>(750,000) |

Total Annual Subsidy for Self Haulers \$ 571,260

#### Roll-offs

| Collection Costs | Annual Collections |   | Cost Per<br>Collection | MARINE S | Annual<br>lection Cost |
|------------------|--------------------|---|------------------------|----------|------------------------|
| Non profits      | 1352               | S | 88.70                  |          | 119,917                |
| Recycling        | 3172               | S | 88.70                  | 8        | 281,345                |
| Clean Tucson     | 104                | 5 | 88.70                  |          | 9,224                  |
| Subtotal         |                    |   |                        | 9        | 410.487                |

| Administration Costs | Number of<br>Containers | Miles College | nthly Cost<br>Container | 1500005A005 | nnual<br>iner Cost |
|----------------------|-------------------------|---------------|-------------------------|-------------|--------------------|
| Non profits          | 19                      | \$            | 1.86                    |             | 423                |
| Recycling            | 45                      | \$            | 1.86                    |             | 1,002              |
| Clean Tucson         | 1                       | \$            | 1.86                    |             | 22                 |
| Subtotal             |                         | and the last  |                         | \$          | 1,447              |

| Container Maintenance Costs | Number of<br>Containers |    | othly Cost<br>Container |   | nnual |
|-----------------------------|-------------------------|----|-------------------------|---|-------|
| Non profits                 | 19                      | S  | 12.81                   |   | 2,921 |
| Recycling                   | 45                      | S  | 12.81                   |   | 6,919 |
| Clean Tucson                | 1                       | \$ | 12.81                   |   | 154   |
| Subtotal                    |                         |    |                         | S | 9,994 |

| Disposal Costs | Annual<br>Tonnage* | Cos | t Per Ton | Annual<br>Disposal Cost |         |  |
|----------------|--------------------|-----|-----------|-------------------------|---------|--|
| Non profits    | 6760               | -   | 23.18     | \$                      | 156,697 |  |
| Clean Tucson   | 520                | \$  | 23.18     | \$                      | 12,054  |  |
| Subtotal       |                    |     |           | \$                      | 168,750 |  |

\* Assumes 5 tons per rolloff pull

Total Annual Subsidy for Roll-offs

\$ 590,678

#### City of Tucson Environmental Services Subsidies Paid by Residential Customers - FY 2005/06

| Annual Tonnage      | 57,000          |
|---------------------|-----------------|
| Per ton tipping fee | \$<br>25.12     |
| Total Annual Cost   | \$<br>1,431,840 |
| Self Haul Fees      | \$<br>(977,500) |

Total Annual Subsidy for Self Haulers S 454,340

#### Roll-offs

| Collection Costs | Annual Collections | 40%-land | Cost Per<br>Collection | (STORE) | Annual<br>ection Cost |
|------------------|--------------------|----------|------------------------|---------|-----------------------|
| Non profits      | 1352               | S        | 95.29                  |         | 128,838               |
| Recycling        | 3172               | \$       | 95.29                  |         | 302,275               |
| Clean Tucson     | 104                | \$       | 95.29                  |         | 9,911                 |
| Subtotal         |                    |          |                        | \$      | 441 024               |

Subtotal \$ 441,024

| Administration Costs | Number of<br>Containers | With the late of t | nthly Cost<br>Container | #ECCCCF#01434 | nual<br>iner Cost |
|----------------------|-------------------------|--|-------------------------|---------------|-------------------|
| Non profits          | 19                      | \$   | 1.91                    |               | 436               |
| Recycling            | 45                      | \$   | 1.91                    |               | 1,034             |
| Clean Tucson         | 1                       | \$   | 1.91                    |               | 23                |
| Subtotal             |                         |  |                         | S             | 1.493             |

| Container Maintenance Costs | Number of<br>Containers |    | onthly Cost<br>r Container | Annual<br>ainer Cost |
|-----------------------------|-------------------------|----|----------------------------|----------------------|
| Non profits                 | 19                      | \$ | 13.37                      | 3,048                |
| Recycling                   | 45                      | \$ | 13.37                      | 7,218                |
| Clean Tucson                | 1                       | S  | 13.37                      | 160                  |
| Subtotal                    |                         |    |                            | \$<br>10,426         |

| Disposal Costs | Annual<br>Tonnage* | Cos | t Per Ton | Annual Disposal Cost |         |  |
|----------------|--------------------|-----|-----------|----------------------|---------|--|
| Non profits    | 6760               | \$  | 25.12     | \$                   | 169,811 |  |
| Clean Tucson   | 520                | \$  | 25.12     | \$                   | 13,062  |  |
| Subtotal       |                    |     |           | \$                   | 192 974 |  |

\* Assumes 5 tons per rolloff pull

Total Annual Subsidy for Roll-offs

\$ 635,816

#### City of Tucson **Environmental Services** Subsidies Paid by Residential Customers - FY 2006/07

| Annual Tonnage      | 57,000            |
|---------------------|-------------------|
| Per ton tipping fee | \$<br>29.56       |
| Total Annual Cost   | \$<br>1,684,920   |
| Self Haul Fees      | \$<br>(1,212,500) |

Total Annual Subsidy for Self Haulers 472,420

#### Roll-offs

| Collection Costs | Annual<br>Collections |    | Cost Per<br>Collection | CHICAN | Annual<br>lection Cost |
|------------------|-----------------------|----|------------------------|--------|------------------------|
| Non profits      | 1352                  | S  | 112.91                 |        | 152,658                |
| Recycling        | 3172                  | S  | 112.91                 |        | 358,159                |
| Clean Tucson     | 104                   | \$ | 112.91                 |        | 11,743                 |
| Subtotal         |                       |    |                        | \$     | 522,559                |

| Administration Costs | Number of Containers |    |      | Annual<br>Container Co |       |  |
|----------------------|----------------------|----|------|------------------------|-------|--|
| Non profits          | 19                   | \$ | 2.05 |                        | 467   |  |
| Recycling            | 45                   | S  | 2.05 |                        | 1,107 |  |
| Clean Tucson         | 1                    | S  | 2.05 |                        | 25    |  |
| Subtotal             |                      |    |      | \$                     | 1.599 |  |

| Container Maintenance Costs |    |    | onthly Cost<br>Container |              |
|-----------------------------|----|----|--------------------------|--------------|
| Non profits                 | 19 | S  | 14.48                    | 3,302        |
| Recycling                   | 45 | \$ | 14.48                    | 7,820        |
| Clean Tucson                | 1  | S  | 14.48                    | 174          |
| Subtotal                    |    |    |                          | \$<br>11,296 |

| Disposal Costs | Annual<br>Tonnage* | Cos | st Per Ton | Annual Disposal Cost |         |  |
|----------------|--------------------|-----|------------|----------------------|---------|--|
| Non profits    | 6760               | \$  | 29.56      | \$                   | 199,826 |  |
| Clean Tucson   | 520                | \$  | 29.56      | \$                   | 15,371  |  |
| Subtotal       |                    |     |            | \$                   | 215,197 |  |

Subtotal

\* Assumes 5 tons per rolloff pull

Total Annual Subsidy for Roll-offs

750,651

#### City of Tucson Environmental Services Subsidies Paid by Residential Customers FY 2007/08

| Annual Tonnage      |    | 57,000      |
|---------------------|----|-------------|
| Per ton tipping fee | \$ | 30.08       |
| Total Annual Cost   | S  | 1,714,560   |
| Self Haul Fees      | \$ | (1,447,500) |

Total Annual Subsidy for Self Haulers \$ 267,060

#### Roll-offs

| Collection Costs | Annual Collections | ACCESS! | Cost Per<br>ollection | Annual<br>Collection Cost |         |  |
|------------------|--------------------|---------|-----------------------|---------------------------|---------|--|
| Non profits      | 1352               | \$      | 114.91                |                           | 155,358 |  |
| Recycling        | 3172               | \$      | 114.91                |                           | 364,495 |  |
| Clean Tucson     | 104                | S       | 114.91                |                           | 11,951  |  |
| Subtotal         |                    |         |                       | \$                        | 531.804 |  |

| Administration Costs | Number of<br>Containers |    | thly Cost | nual<br>ner Cost |
|----------------------|-------------------------|----|-----------|------------------|
| Non profits          | 19                      | \$ | 2.15      | 491              |
| Recycling            | 45                      | S  | 2.15      | 1,163            |
| Clean Tucson         | 1                       | S  | 2.15      | 26               |
| Subtotal             |                         |    |           | \$<br>1.680      |

| Container Maintenance Costs | Number of Containers |    | fonthly Cost<br>er Container | RESIDENCE. | Annual<br>ainer Cost |
|-----------------------------|----------------------|----|------------------------------|------------|----------------------|
| Non profits                 | 19                   | S  | 14.96                        |            | 3,411                |
| Recycling                   | 45                   | \$ | 14.96                        |            | 8,080                |
| Clean Tucson                | 1                    | \$ | 14.96                        |            | 180                  |
| Subtotal                    |                      |    |                              | \$         | 11,671               |

| Disposal Costs | Annual<br>Tonnage* | Cos | t Per Ton | Annual<br>Disposal Cost |         |  |
|----------------|--------------------|-----|-----------|-------------------------|---------|--|
| Non profits    | 6760               | \$  | 30.08     | S                       | 203,341 |  |
| Clean Tucson   | 520                | \$  | 30.08     | \$                      | 15,642  |  |
| Subtotal       |                    |     |           | \$                      | 218,982 |  |

Subtotal

\* Assumes 5 tons per rolloff pull

Total Annual Subsidy for Roll-offs

S 764,137

#### City of Tucson **Environmental Services** Subsidies Paid by Residential Customers - FY 2008/09

| Annual Tonnage      | 57,000            |
|---------------------|-------------------|
| Per ton tipping fee | \$<br>32.03       |
| Total Annual Cost   | \$<br>1,825,710   |
| Self Haul Fees      | \$<br>(1,682,500) |

Total Annual Subsidy for Self Haulers S 143,210

#### Roll-offs

|                  | ton one               |           |                       |                          |         |  |
|------------------|-----------------------|-----------|-----------------------|--------------------------|---------|--|
| Collection Costs | Annual<br>Collections | SECTION . | Cost Per<br>ollection | Annual<br>Collection Cos |         |  |
| Non profits      | 1352                  | S         | 121.96                |                          | 164,893 |  |
| Recycling        | 3172                  | S         | 121.96                |                          | 386,865 |  |
| Clean Tucson     | 104                   | \$        | 121.96                |                          | 12,684  |  |
| Subtotal         |                       |           |                       | S                        | 564,442 |  |

| Administration Costs | PRINCIPLE REPORT OF CASE LEGISLATION AND ADDRESS OF THE PRINCIPLE AND ADDR |    | onthly Cost<br>Container | Annual<br>Container Cos |       |  |
|----------------------|--|----|--------------------------|-------------------------|-------|--|
| Non profits          | 19   | S  | 2.26                     |                         | 516   |  |
| Recycling            | 45   | \$ | 2.26                     |                         | 1,223 |  |
| Clean Tucson         | 1  | S  | 2.26                     |                         | 27    |  |
| Subtotal             |  |    |                          | \$                      | 1,767 |  |

| Container Maintenance Costs | Number of<br>Containers | HIGH SPILES | nthly Cost<br>Container | Annual<br>Container C |        |  |
|-----------------------------|-------------------------|-------------|-------------------------|-----------------------|--------|--|
| Non profits                 | 19                      | S           | 15.62                   |                       | 3,562  |  |
| Recycling                   | 45                      | S           | 15.62                   |                       | 8,436  |  |
| Clean Tucson                | 1                       | \$          | 15.62                   |                       | 187    |  |
| Subtotal                    |                         |             |                         | S                     | 12,186 |  |

| Disposal Costs | Annual Tonnage* | Cos | st Per Ton | DERVIS | Annual<br>posal Cost |
|----------------|-----------------|-----|------------|--------|----------------------|
| Non profits    | 6760            | S   | 32.03      | \$     | 216,523              |
| Clean Tucson   | 520             | S   | 32.03      | \$     | 16,656               |
| ubtotal        | ·               |     |            | \$     | 233,178              |

Subtotal

Total Annual Subsidy for Roll-offs

811,573

<sup>\*</sup> Assumes 5 tons per rolloff pull

#### City of Tucson Environmental Services Five-Year Debt Service Summary

|   | F  | Y 2004/05 | F   | Y 2005/06 | F    | Y 2006/07                               | F        | Y 2007/08 | F     | Y 2008/09 |
|---|----|-----------|-----|-----------|------|---|----------|-----------|-------|-----------|
| .ease/Purchase Agreements                               |    |           |     |           |      |   |          |           |       |           |
| Existing  |    |           |     |           |      |   |          |           |       |           |
| Vehicles & containers                                   | \$ | 62,881    | 5   |           | \$   |   | 2        | 85        | \$    | 33        |
| 14725 65/95 Gal Carts                                   |    | 148,032   |     | 148,032   |      |   |          | -         |       | 12        |
| 1912 65 Gal Carts                                       |    | 18,708    |     | 18,708    |      | 9,354                                   |          | 3-        |       | (2)       |
| 6000 35 Gal Carts                                       |    | 48,403    |     | 48,403    |      | 24,201                                  |          | 9.7       |       | 95        |
| Landfill Heavy Equipment                                |    | 250,000   |     | 250,000   |      | 250,000                                 |          | <u> </u>  |       | - 2       |
| Certificates of Participation (COP)                     |    |           |     |           |      |   |          |           |       |           |
| Projected COP for Vehicles and Containers               |    |           |     |           |      |   |          |           |       |           |
| Vehicle Purchases                                       | 5  | 473,739   | 5   | 1,010,373 | \$   | 1,578,021                               | 2        | 1,736,159 | \$    | 1,736,1   |
| Rear Loader for Clean Tucson                            |    | 28,641    |     | 28,641    |      | 28,641                                  |          | 28,641    |       | 28,6      |
| Side Loaders & Containers for Residential Collections   |    | 156,442   |     | 315,052   |      | 433,586                                 |          | 552,120   |       | 670,6     |
| Containers for Commercial Collections                   |    | 41,207    |     | 83,164    |      | 125,877                                 |          | 168,590   |       | 211,3     |
| Subtotal  | 5  | 1,228,052 | 5   | 1,902,372 | 5    | 2,449,680                               | 5        | 2,485,510 | 5     | 2,646,7   |
| General Obligation Bonds                                |    |           |     |           |      |   |          |           |       |           |
| 1994 General Obligation Bonds - Series A                |    |           |     |           |      |   |          |           | 0.000 | 9300      |
| SWMD's Share  | 5  | 105,188   | \$  | 105,188   | 5    | 105,188                                 | \$       | 105,188   | 2     | 105,1     |
| 1994 General Obligation Bonds - Series B                | 8  | Opening   | 1/2 | Washing . | 9122 | 122725237                               | 1029     | V444 4255 | 040   | 22.5      |
| SWMD's Share  | 5  | 89,256    | \$  | 89,256    | \$   | 89,256                                  | 2        | 89,256    | 2     | 89,2      |
| 1994 General Obligation Bonds - Series E                |    |           |     |           | 1923 | 22000000                                | 3020     | 0000000   | 22    | 222.0     |
| SWMD's Share  | \$ | 580,875   | S   | 573,975   | \$   | 571,725                                 | 2        | 563,775   | 2     | 560,4     |
| 2000 General Obligation Bonds - Series A                |    |           |     |           |      |   |          |           |       |           |
| SWMD's Share  | S  | 224,070   | S   | 224,070   | S    | 224,070                                 | \$       | 297,070   | S     | 304,7     |
| 2000 General Obligation Bonds - Series B                | -  | 4.00      | -   | ********* |      | 107.000                                 |          | 107.005   |       | 102.0     |
| SWMD's Share  | S  | 183,085   | \$  | 183,085   | 2    | 183,085                                 | <b>3</b> | 183,085   | 2     | 183,0     |
| 2000 General Obligation Bonds - Series C                |    | 2000000   | 200 |           |      | 200000000000000000000000000000000000000 | 0.000    | *****     |       | Yee.      |
| SWMD's Share  | S  | 84,050    | 2   | 84,050    | \$   | 120,930                                 | 2        | 142,136   | 2     | 155,4     |
| 1998 Refunding (94 Series A and B) - SWMD's Share       | S  | 431,997   | \$  | 406,525   | \$   | 406,280                                 | \$       | 407,453   | S     | 407,1     |
| 2003 Refunding (94 Scries A/1993 Refund) - SWMD's Share | \$ | 165,163   | \$  | 163,389   | \$   | 163,442                                 | \$       | 162,732   | \$    | 427,9     |
| Projected Debt  |    | 92,577.0  |     |           |      |   |          |           |       |           |
| Issued to finance unfunded capital improvement projects | \$ | 99,581    | S   | 143,513   | \$   | 838,984                                 | 5        | 894,956   |       | 929,8     |
| Issued to finance funded CIP (debt financing)           | \$ | 725,658   | 5   | 938,705   | 2    | 1,079,072                               | S        | 1,120,921 | \$    | 1,142,0   |
| Issued to finance funded CIP (2000 GO bonds)            | 5  | 80,243    | \$  | 273,709   | 5    | 407,276                                 | \$       | 415,994   | \$    | 422,8     |
| Issued to finance funded CIP (1994 GO bonds)            | \$ |           | \$  | 8,284     | \$   | 8,284                                   | \$       | 8,284     | \$    | 8,2       |
|   |    |           |     |           |      |   |          |           |       |           |

## City of Tucson Environmental Services Debt Expense by Service Category

|                       |        |           |            | 11 | 包括於清      |    | LE REPORT | # -     |           |
|-----------------------|--------|-----------|------------|----|-----------|----|-----------|---------|-----------|
|                       | FY 2   | 004/05    | FY 2005/06 | F  | Y 2006/07 | F  | Y 2007/08 | F       | Y 2008/09 |
| Residential           |        |           |            |    |           |    |           |         |           |
| Administration        | S      | 74,373 \$ | 158,621    | \$ | 247,738   | S  | 272,564   | \$      | 272,564   |
| Collection            | - 4    | 81,197    | 763,973    |    | 832,261   |    | 953,830   |         | 1,072,364 |
| Disposal Operations   | 4      | 07,666    | 485,685    |    | 730,347   |    | 694,767   |         | 730,884   |
| Disposal Remediation  | 6      | 09,530    | 697,303    |    | 823,833   |    | 856,786   |         | 929,562   |
| Clean Tucson          |        |           |            |    |           |    |           |         |           |
| Administration        |        | 59        | 125        |    | 196       |    | 215       |         | 215       |
| Collection            |        | 67,743    | 112,035    |    | 158,888   |    | 171,941   |         | 171,941   |
| Disposal Operations   |        |           | -          |    |           |    | 2         |         | 74        |
| Disposal Remediation  |        | <u> </u>  |            |    | Ş.,       |    |           |         | -         |
| Subtotal              | \$ 1,6 | 40,568    | 2,217,743  | \$ | 2,793,263 | \$ | 2,950,104 | \$      | 3,177,530 |
| Commercial Dumpsters  |        |           |            |    |           |    |           |         |           |
| Administration        | \$     | 121 5     | 257        | \$ | 402       | \$ | 442       | \$      | 442       |
| Collection            | 1      | 09,779    | 230,828    |    | 357,705   |    | 414,620   |         | 444,519   |
| Disposal Operations   | 1      | 92,522    | 228,818    |    | 344,012   |    | 326,964   |         | 344,072   |
| Disposal Remediation  | 2      | 88,721    | 330,293    |    | 390,223   |    | 405,831   |         | 440,304   |
| Container Maintenance |        | 4,776     | 10,186     |    | 15,909    |    | 17,503    |         | 17,503    |
| Subtotal              | \$ 5   | 95,918 \$ | 800,382    | S  | 1,108,250 | \$ | 1,165,360 | \$      | 1,246,840 |
| Commercial Roll-offs  |        |           |            |    |           |    |           |         |           |
| Administration        | \$     | 4 5       | 8 8        | S  | 12        | \$ | 13        | \$      | 13        |
| Collection            |        | 34,648    | 72,480     |    | 111,998   |    | 132,251   |         | 145,065   |
| Disposal Operations   |        | 59,420    | 70,623     |    | 106,177   |    | 100,915   |         | 106,195   |
| Disposal Remediation  |        | 89,111    | 101,942    |    | 120,439   |    | 125,257   |         | 135,896   |
| Container Maintenance | 89     | 142       | 303        | _  | 473       | _  | 521       |         | 521       |
| Subtotal              | \$ 1   | 83,326    | 245,356    | \$ | 339,099   | \$ | 358,957   | \$      | 387,690   |
| Privates/Self Haulers |        |           |            |    |           |    |           |         |           |
| Disposal Operations   | \$ 6   | 31,044 \$ | 750,015    | \$ | 1,127,596 | \$ | 1,071,716 | \$      | 1,127,792 |
| Disposal Remediation  | 9      | 46,362    | 1,082,626  |    | 1,279,064 |    | 1,330,224 | Series. | 1,443,218 |
| Subtotal              | \$ 1,5 | 77,406    | 1,832,641  | \$ | 2,406,660 | \$ | 2,401,940 | \$      | 2,571,010 |
| Total                 | \$ 3,9 | 97,217 \$ | 5,096,121  | S  | 6,647,272 | S  | 6,876,361 | s       | 7,383,070 |

# City of Tucson Solid Waste Management Department Unfunded Capital Improvement Projects

| Project  | Rem / Ops  | 2005         |             | 2006           | Year Funds Needed<br>2007 200           | Is Needed<br>2008  | 2009        | Future        | Total         |
|--|--|--------------|-------------|----------------|---|--|-------------|---------------|---------------|
| Solid Waste Management   |  |              | 2           | 1 1 02/00      | F X 00/07                               | FY 07/08   | FY 08/09    |               |               |
| Non-Closure  |  |              |             |                |   |  |             |               |               |
| Harrison Landfill End Use  | rem  | u            |             | 375 000        |   |  |             |               |               |
| Household Hazardous Waste Facility   | 500  |              | Į.          |                |   | 53   |             | •             | \$ 375,000    |
| Los Reales Access Roadway Improvemente   | . 0  |              |             | 500 500        |   | •  |             | *             | •             |
| The Reales Buffer Inspection and   | 200  |              | į.          | 100,000        | 2,312,000                               |  |             |               | 2,412,000     |
| the state of the s | sdo  |              | ì           | G <sub>i</sub> | 200,000                                 | 242,000  | 9           | 3             | 442 000       |
| Los Reules Drainage Improvements   | sdo  |              | 9           | 4              |   | CONTROL OF THE PARTY OF THE PAR |             | 000000        | 400,444       |
| Los Reales Facilities  | ops  |              |             |                | 000 000                                 | 3  |             | 200,000       | 000'086       |
| Los Reales Future Cells  | 000  |              | 3(3)        |                | 200000000000000000000000000000000000000 | ¥ in   |             | *             | 220,000       |
| Los Reales Cas Control   | od o   |              | ē           |                | 3/30,000/5                              | 200  | 150,000     | 80            | 3,900,000     |
| Los Boules Calf Hanter English   | edo  |              | 90          |                | 95,000                                  |  |             | 215           | 95,000        |
| LAS Nelles Sen manier racility   | sdo  |              | - X         | 50,000         | 700,000                                 | î  | 9           | 9             | 750 000       |
| Mullins Landfill Stormwater Controls   | rem  | 1.24         | 1,241,000 / | ,              |   |  |             |               | nonine:       |
| Closure  |  |              |             |                |   |  |             | 573           | 1,241,000     |
| Closed Landfill Improvements   | OUDS   |              | 8           |                | 000 010                                 |  | 150 S00 S00 |               |               |
| Closed Landfill Gas Mittigation  |  |              |             |                | 230,000                                 | 173,000  | 100,000     | ×             | 503,000       |
| Total Total Cas senigation   | rem  |              | £.          | *              | 165,000                                 | 170,000  | 175,000     |               | 510 000       |
| nyington Landilli Closure  | mer  |              |             |                | 200,000                                 | 200 000  | 200,000     |               | 000000        |
| Los Reales Final Closure   | rem  |              | 1           | 7              |   | 0.0000   | 000'00*     |               | 000,000       |
| Los Reales Intermediate Closure  | Table 1  |              |             |                |   | *  |             | 28,000,000    | 28,000,000    |
| Tumber 1 and 61 Clause   | 1000   |              | *11         | *1             | 100,000                                 | •  | ٠           | 927,000       | 1.027,000     |
| THURSD TRUTH CIONES  | ueu  |              |             | 3.             | 300,000                                 | ٠  | 6           | ,             | 300,000       |
| Environmental Services   |  |              |             |                |   |  |             |               |               |
| Non-Closure  |  |              |             |                |   |  |             |               |               |
| City I andfill Groundsater Impactions  | 1575   |              |             |                |   |  |             |               |               |
| Treatment and the state of the  | LCIII  |              |             | 50             | 300,000                                 | 100,000  | 100,000     | 50,000        | 250.000       |
| nemison Landelli Groundwater Remediation   | rem  |              | 9           | 18             | 100.000                                 | 29 000   |             |               | 130,000       |
| Los Reales Landfill Groundwater Remediation  | TETT   |              | -           |                | 100 000                                 | 100,000  |             |               | 000,621       |
| Los Reales Landfill Southwest Remediation  | 50.63  |              |             |                | 0000000                                 | 00000  |             |               | 200,000       |
| Dries Carries Center Damadiation   | TO THE PARTY OF TH |              |             |                | 100,000                                 | 100,000  | •           |               | 200,000       |
| Closure  | rem  |              | · ·         | <b>96</b>      | 100,000                                 | 000,17   | 150,000     | 100,000       | 421,000       |
|  |  |              |             |                |   |  |             |               |               |
| Cottonwood Landfill Project  | TETT   |              |             |                | 100,000                                 |  | 4           | 76            | 100 000       |
| Subtotal   |  | \$ 1,241,000 | \$ 000      | 525,000        | 0077.000                                | 1 105 000  | 1           |               | nontont       |
|  |  |              |             | 00000          | 2004-104                                | 1,100,000  | 000,578     | 000,788,627 8 | \$ 42,555,000 |